FRIENDS'
ALMANAC
FOR THE YEAR
1863:

BEING THE THIRD AFTER BISSEXTILE OR LEAP YEAR.

CONTAINING

The Rising, Setting, Southing, Places and Eclipses of the Sun and Moon; the Phases and Age of the Moon; the Rising, Setting, and Southing of the most conspicuous Planets and fixed Stars; Equation of time; the Sun's Declination;

Planets' Places in right Ascension and Declination; the Time of High Water at Philadelphia, &c.

Also an account of the times and places of holding the Meetings of Friends on the Continent of America.

Astronomical Calculations for the 40th degree of N. Latitude, and adapted to the Meridians of

New York, Philadelphia, Baltimore, and Cincinnati.

BY JOSEPH FOULKE, M. D.,

OF PENNSYLVANIA.

Buckingham Post Office, Bucks Co., Pa.

TO BE CONTINUED ANNUALLY.

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RISING, SETTING, AND SOUTHING OF THE PLANETS.

It should be observed, that these are not sensibly affected by the longitude of a place. When the hour is less than six, it is in the morning; when greater than six, it is in the evening.

Date.	Planet.	Bost.	Phil.	Balt.	Date.	Planet.	Bost.	Phila.	Balt.
1863.		h. m.	h. m.	h. m.	1863.		h. m.	h. m.	h. m.
1 mo. 1.	Mars south	6 41	6 41	6 41	7 mo. 1,	Venus sets	10 7	10 2	9 50
10.	Saturn rises	11 3	11 3	11 3	10,	Mars sets	9 8	9 2	8 47
20.	Mercury sets	6 18	6 24	6 37	20,	Saturn sets	10 21	10 21	10 20
2d " 1,	Venus sets	6 9	6 14	6 26	8th " 1,	Venus sets	9 2	9 1	9 1
10,	Jupiter rises	10 55	10 53	10 45	10,	Jupiter sets	9 41	9 43	9 49
20.	Saturn rises	8 16	8 16	8 16	20,	Mars sets	7 30	7 27	7 21
3d " 1.	Venus sets	7 21	7 22	7 22	9th " 1,	Venus sets	7 17	7 20	7 28
10.	Merc'y rises	5 26	5 21	5 9	10,	Mercury sets	7 3	7 5	7 11
20.	Jupiter rises	8 14	8 11	8 5	20,	Jupiter sets	7 17	7 20	7 28
4th " 1,	Venus sets	8 38	8 33	8 22	10 " 1,	Venus rises	5 48	5 45	5 39
10.	Mars sets	11 37	11 29	11 8	10,	Mars rises	5 55	5 54	5 50
20.	Saturn so.	10 11	10 11	10 11	20,	Saturn rises	4 54	4 54	4 52
5th " 1.	Venus sets	9 51	9 43	9 22	11 " 1,	Merc'y rises	5 7	5 4	5 0
10,	Jupiter so.	10 0	10 0	10 0	10,	Venus rises	3 7	3 7	3 5
20,	Saturn so.	8 8	8 8	8 8	20,	Jupiter rises	5 37	5 32	5 20
6th " 1,	Mars sets.	10 26	10 18	9 58	12 " 1,	Saturn rises	2 33	2 31	2 28
10,	Venus sets	10 28	10 25	10 4	10,	Venus rises	3 19	3 17	3 9
20,	Jupiter so.	7 13	7 13	7 13	20,	Jupiter rises	4 9	4 4	3 51

Explanations of Astronomical Characters.

THE PLANETS AND THEIR RELATIONS.

☉ or ☉ the Sun	♀ Venus	♃ Jupiter
☽ the Moon	⊕ the Earth	♄ Saturn
☿ Mercury	♂ Mars	♅ Uranus

☊ A Planet's ascending node.
☋ The descending node.
☌ Conjunction, or Planets situated in the same longitude.
□ Quadrature, or Planets situated in longitude differing three signs from each other.
☍ Opposition, or Planets situated in opposite longitudes, or differing six signs from each other.

N. North	Inf. Inferior	Im. Immersion
S. South	Sup. Superior	Em. Emersion

Signs of the Zodiac.

1st	♈ Aries	(0 + ..)	7th	♎ Libra	(6 + ..)
2d	♉ Taurus	1	8th	♏ Scorpio	7
3d	♊ Gemini	2	9th	♐ Sagittarius	8
4th	♋ Cancer	3	10th	♑ Capricornus	9
5th	♌ Leo	4	11th	♒ Aquarius	10
6th	♍ Virgo	5	12th	♓ Pisces	11

SEASONS.

Sun enters ♈ Third Month 20, at 9h. 32m. P. M.; when Spring commences, and the days and nights are equal.

Sun enters ♋ Sixth Month 21, at 6h. 2m. P. M.; when Summer commences, and the longest day occurs.

Sun enters ♎ Ninth Month 23, at 8h. 15m. A. M.; when Autumn commences, and the days and nights are again equal.

Sun enters ♑ Twelfth Month 22, at 2h. 5m. A. M.; when Winter commences, and the shortest day occurs.

EPOCHS OF 1863.

Dominical Letter	D,	Julian Period	6576
Lunar Cycle	2,	Solar Cycle	24

Roman Indiction 6

NOTES TO THE READER.

I. The astronomical calculations in this work, are made to true clock time. The effects of Refraction, according to the latest improved Tables of Bessel, and the Equation of Time, have both been applied to the times of the Sun's rising and setting: so that the Sun, the Almanac, and a good Clock, will agree the year round.

II. A Time-piece may be set very nearly true by the rising, setting, or southing of the Sun, Moon or Stars,—but more accurately by the Sun, (or the southing of the Sun, or a fixed Star) any where on or near the 40th degree of north latitude.

III. The time of the rising, setting, or southing of a fixed Star, may be carried several days forward by subtracting, or backward by adding 4 minutes per day.

IV. The common day of 24 hours, begins at midnight, and morning (marked morn.) continues from midnight till noon; and afternoon (marked aft.) continues from noon till midnight; this should be remembered carefully when looking for the times of the rising, setting, or southing of the Moon or Stars soon after midnight.

VENUS.

Venus will be Evening Star until the 24th of Ninth Month, then Morning, the remainder of the year. It will be brightest on the 22d of Eighth Month, visible in the west; and on the 5th of Eleventh Month, visible in the east, in the Morning.

MERCURY.

Mercury will be brightest about the 22d of First Month, 16th of Fifth Month, and 13th of Ninth Month, at which times it will be likely to be visible, being then in the west, immediately after sunset. It will again be brightest about the 11th of Third Month, 10th of Seventh Month, and 29th of Tenth Month, when it will be in the east just before sunrise.

ECLIPSES.

In the year 1863 there will be two Eclipses of the Sun, and two of the Moon.

I. A partial Eclipse of the Sun, on the 17th of Fifth Month, invisible here; visible in Europe, Greenland, and British and Russian America.

II. A total Eclipse of the Moon, on the first of Sixth Month, partly visible; all the phases of this eclipse, will have passed before the Moon rises, except the last contact with the shadow. The Moon will rise partially eclipsed, and the last contact will occur, as follows: at Boston 8h. 22m., Philadelphia 8h. 5m., Baltimore 7h. 59m., Charleston 7h. 47m.

III. An Annular Eclipse of the Sun, on the 11th of Eleventh Month, invisible on this continent The line of Central and Annular Eclipse is in the Great Southern Ocean, near the South Pole.

IV. A partial Eclipse of the Moon, on the 25th of Eleventh month, in the morning, visible as follows:

	Beginning.		Middle.		End.	
	h.	m.	h.	m.	h.	m.
Boston, ...	2	32	4	12	5	52
New York, ...	2	20	4	0	5	40
Philadelphia, ...	2	15	3	55	5	35
Baltimore, ...	2	9	3	49	5	29
Charleston, ...	1	57	3	37	5	17

Digits Eclipsed 10.8 from the southern side of the Earth's Shadow.

TO THE PATRONS OF THE FRIENDS' ALMANAC.

Having in my youthful days taken great delight in the study of Astronomy, it still continues now in advanced life, to add much to my enjoyment. I can with humbling admiration endorse the language of the Psalmist in his address to the sovereign Creator of the Universe; "When I consider the Heavens, the work of thy hands, the Moon and the Stars which thou hast ordained; what is man that thou art mindful of him? and the son of man that thou visitest him?"

It is now more than thirty years, since the first issue of this work, then entirely under my care, and also the labors of the Astronomical calculations, and of collecting and receiving the accounts of the meetings, and the times and places of holding them, &c. And though this labor and responsibility has for several years past, gone into the hands of my son and namesake, I still feel a deep interest in the prosperity of the work. I find in my travels, up and down, a number of my former students, who have studied Astronomy in our Institution, some of these, have repeatedly requested me to write an essay on Astronomy, and of some of the late discoveries, especially in relation to the moon. Though I am unequal to the task of doing the subject justice, I will cheerfully do the best I can.

Astronomy is a word derived from the Greek, from *Astra*, a star, and *nomy*, a law or rule, and means a star and a law or rule,—a very appropriate term. It is of very ancient date, and according to Dobson's Encyclopædia, "is a knowledge of the heavenly bodies, with regard to their magnitudes, motions, distances, &c., whether real or apparent." From this authority it is said, that "by some of the Jewish Rabbins, Adam in his state of innocence, is supposed to be endowed with a knowledge of the nature, influence, and uses of the heavenly bodies; and Josephus, (a learned Jewish writer, who lived about the beginning of the christian era,) ascribes to Seth and his posterity, an extensive knowledge of Astronomy.

The Chinese appear to have cultivated the study of Astronomy at a very early date; Dr. Long, observes that the vanity of that people has prompted them to pretend a knowledge of Astronomy almost as early as the flood. It is true, discoveries were made, important observations taken, and eclipses recorded by the ancients, which have been of incalculable advantage to the modern Astronomer and Chronologer, for by these records and observations especially of ancient eclipses, the mean motions of the sun and moon may be determined, and modern tables for calculating them, rectified to great accuracy, and dates, epochs, and other events satisfactorily determined, which must otherwise have been left in great uncertainty. Ferguson, in his Astronomy, says, "it is recorded by Ptolemy, from Hipparchus, that on the 22d of September, the year 201, before the first year of Christ, the moon rose so much eclipsed at Alexandria, the eclipse must have begun about half an hour

before she rose." This eclipse is calculated by Ferguson from his own tables, and the result agrees with the ancient record with remarkable precision, though it occurred more than two thousand years ago ; the record states that in the 4513th year of the Julian period, (on the day and dates above mentioned,) the moon was 10 digits eclipsed at Alexandria, at 7 o'clock in the evening. The Julian period is obtained by multiplying the solar cycle of 28 years into the lunar cycle of 19 years, and that product into the Roman indiction of 15 years, making a period of 7980 years. Ferguson, observes that if writers had been careful to note, in what year of the Julian period any occurrence took place, there would have been no dispute about fixing the date thereof, as it is a period that is not yet completed, and will not be for some centuries to come.

The same author, (Ferguson,) observes in the commencement of his work, that "of all the sciences cultivated by mankind, Astronomy is acknowledged to be, and undoubtedly is, the most sublime, the most interesting, and the most useful; for by knowledge derived from this science, not only the magnitude of the earth is discovered, the situation and extent of the countries and kingdoms upon it ascertained, trade and commerce carried on to the remotest part of the world, and the various products of several countries distributed for the health, comfort, and conveniency of its inhabitants ; but our very faculties are enlarged with the grandeur of the ideas it conveys, our minds exalted above the low contracted prejudices of the vulgar, and our understandings clearly convinced, and affected with the conviction of the existence, wisdom, power, goodness, immutability, and superintendency of the Supreme Being, so that without an hyperbole

An undevout Astronomer is mad.*

For many ages this interesting science was enveloped in great obscurity, and many systems were adopted, which passed one after another into oblivion, Astronomers appeared in every age, and though the system they adopted might have been erroneous, the observations they made, enabled others, in after time, to improve on them. The careful records the ancients made of eclipses, though they superstitiously considered them omens of war and calamity, yet these records are of incalculable value, not only to the Astronomer, but to the Chronologer, as before observed, and the correct Historian, in establishing events as to time and place.

Astronomy made gradual advances by the labors and observations of the ancients; the Phenicians and the Greeks, appear to be conspicuous in this work, and the discoveries of the latter appear to have been greatly improved by *Thales*. The Egyptians made important discoveries. The successors of *Thales*, *Anaximander*, *Anaximanes*, and *Anaxagoras*, contributed considerably to the advancement of Astronomy. But Pythagoras is said to have greatly improved not only Astronomy and Mathematics, but every other branch of philosophy He taught that the universe had four elements, and

* Young's Night Thoughts.

that it had the sun in the centre; that the earth was round, and had antipodes; and that the moon reflected the rays of the sun. The celebrated Archimedes, who next to Isaac Newton, holds the first place among mathematicians, and was not inferior as an Astronomer to what he was as a Geometrician. He determined the distance of the moon from the earth, and of the planets, from the sun and from one another.

About the year 1500, Nicholas Copernicus, who is justly considered the great reformer of the Astronomical science, adopted the Pythagorian system. He considered the sun placed in the centre, and the earth and all the other planets revolving around him. This system called the Copernicum system was subsequently confirmed, and demonstrated by Isaac Newton, this remarkable and illustrious personage, so improved and remodelled Astronomy, that our solar system is frequently called the Newtonian system.

The beginning of the 17th century is remarkable for the first discovery of logarithms by Nepier, and of the telescope by Galileo, who, with instruments of his own making, discovered the inequalities in the moon's surface, the sattelites of Jupiter, and the ring of Saturn. By these two discoveries of logarithms and of the telescope, Astronomy has by their aid made rapid advances towards perfection. The great law of universal gravitation, discovered by Isaac Newton, keeps all the planets in their places. The sun in the centre of the solar system, by the power of gravity and attraction, extends his influence to all his family of planets and secondaries, and they again according to their respective magnitudes, and distances, exert a mutual attraction on each other. These mutual attractions, are called disturbances because they interrupt the general law, by which all the planets in the system tend towards the sun, and if it were not for these disturbances the calculations of the various phenomena of the planets would be simple and easy. But, Newton, having discovered and established the general law, Laplace a modern French Astronomer, by his profound knowledge of algebra and fluxions, laid down the theory by which the very complex problem of calculating the amount of these interruptions, on the general law might be made. This theory was called the *Mechanic Celeste*, and was written in French. Again, Nathaniel Bowdich, of New England, translated this mammoth work, investigating every theory with the greatest skill and accuracy. Others have since formed tables by which the theory has been reduced to practice. In Gummere's Astronomy, there are twenty equations required to determine the moon's longitude for any given time, by which it is obtained to great accuracy.

Telescopes, since the days of Galileo, have been greatly improved. Lord Ross's stands prominent in the present day. By the aid of these powerful instruments we are enabled to look into infinite space far beyond what we could formerly, and penetrate more deeply into the vast extent of the length and breadth, and the heighth and depth of the wide spread creation around us; new planets with their attendants are constantly discovered, double fixed stars, and myriads of stars formerly unknown have been brought to light by the aid of

these powerful glasses, and it is now believed that the sun and all his attendants, are gravitating around a point among the northern constellations, which will require a vast number of centuries to perform a full revolution. This discovery has been called another milestone in the progress of Astronomical science.

It is said Lord Ross's telescope will descry an object 100 feet square on the surface of the moon, yet no certainty of its being inhabited by living creatures, has been ascertained; it wears a desolate appearance, has high mountains and deep valleys, and it remains doubtful of its having any atmosphere.

How appropriate to our subject is the language of an eminent writer, "Order is Heaven's first law, it means a place for everything, and everything in its place." How beautifully this applies to the planets, and to all objects, whether in motion or at rest!

I shall conclude this essay with the remarks of John Janeway, who, at the early age of twelve years, made a considerable proficiency in the science of Astronomy, and in other branches of useful literature. At the age of seventeen, he was chosen to King's College in Cambridge, and when he was about eighteen, it pleased Divine Goodness, to open his understanding and discover to him that a knowledge of his Creator through Jesus Christ was infinitely superior to every attainment and possession of this world. At this time he became sensible that Astronomy surveyed but a mole hill, in comparison of the great object, which the religion of Jesus contemplates. This eminently favored young man, died in the twenty-fifth year of his age. He went off the stage of action with this song of triumph in his mouth:—I shall presently stand upon Mount Sion, with an innumerable company of angels and the spirits of the just made perfect. I shall hear the voice of multitudes, and be one among them who say: "Hallelujah! glory, and honor, and power unto the Lord our God."

Affectionately I remain, reader, thy assured friend,

JOSEPH FOULKE.

Gwynedd, 6th mo. 8th, 1862.

NOTE—It is the expectation of the publisher to issue, simultaneously with this, an edition of the *Original "Friends' Pocket Almanac;"* the publication of which has been discontinued for some years. A few of them will perhaps be done up with blank leaves and bound like a pocket book, suitable for pocket memorandum book.

MOON'S PHASES.

	N. York			*Philada.*			*Baltimore*			*Cincinnati.*			
	D.	H.	M.	D.	H.	M.	D.	H.	M.	D.	H.	M.	
○ Full Moon.	4	10	36	4	10	31	4	10	25	4	9	54	aft.
☾ Last Quar.	12	7	10	12	7	5	12	6	59	12	6	28	aft.
● New Moon.	19	11	6	19	11	1	19	10	55	19	10	24	mor.
☽ First Quar.	26	11	58	26	11	53	26	11	47	26	11	16	mor.

M D	W D	*Miscellanies.*	Sun rises	Sun sets.	Sun's dec. s.	Sun south. H.	M.	S.
1	5	Aldebaran south 9 43	7 24	4 44	23° 1′	12	3	51
2	6	☉ in Perigee	7 24	4 45	22 56	12	4	19
3	7	☾ in Apogee	7 24	4 46	22 50	12	4	47
4	D	Sirius rises 6 40 ♒	7 24	4 47	22 44	12	5	14
5	2	Regulus rises 8 21	7 24	4 48	22 37	12	5	41
6	3	☿ grt. Hel. Lat. s.	7 24	4 49	22 30	12	6	8
7	4	Day-break 5 45	7 24	4 49	22 23	12	6	34
8	5	Battle New Orleans, 1815	7 24	4 50	22 15	12	6	59
9	6	Rigel south 9 51	7 24	4 51	22 7	12	7	24
10	7	Twilight ends 6 29	7 24	4 52	21 58	12	7	49
11	D	♀ in Aphelion.	7 23	4 53	21 48	12	8	13
12	2	♄ ☌ ☾	7 23	4 54	21 39	12	8	36
13	3	♃ ☌ ☾	7 23	4 55	21 29	12	8	59
14	4	Mackenzie d. 1831	7 23	4 56	21 18	12	9	21
15	5	Moliere born, 1622	7 22	4 57	21 7	12	9	43
16	6	♄ stationary	7 22	4 58	20 56	12	10	3
17	7	Dr. Franklin b. 1706	7 21	4 59	20 44	12	10	23
18	D	☾ in Perigee ♋	7 21	5 0	20 32	12	10	43
19	2	♀ ☌ ☾	7 20	5 1	20 20	12	11	1
20	3	*Western Q. M.*	7 19	5 3	20 7	12	11	19
21	4	☿ ☌ ☾	7 19	5 4	19 54	12	11	37
22	5	*Caln Q. M.*	7 18	5 5	19 40	12	11	53
23	6	Aldebaran south 8 17	7 18	5 7	19 26	12	12	9
24	7	C. J. Fox born, 1749	7 17	5 8	19 12	12	12	24
25	D	☿ grt. elong. E.	7 16	5 9	18 57	12	12	38
26	2	♁ ☌ ☾	7 16	5 11	18 42	12	12	51
27	3	Concord Q. M.	7 15	5 12	18 27	12	13	03
28	4	Peter the Great d. 1725	7 15	5 13	18 11	12	13	15
29	5	Sirius so. 10 3	7 14	5 14	17 55	12	13	26
30	6	☿ in Perihelion	7 13	5 15	17 39	12	13	36
31	7	☾ in Apogee ♒	7 12	5 16	17 23	12	13	44

Planets' Places in Right Ascension and Declination.

	M D	R. A. H.	M.	Declin. °	′		P. M. H.	M.	M D	R. A. H.	M.	Declin. °	′		P. M. H.	M.
♀ Venus	1	19	9	23	24	S.	0	27	17	20	35	20	4	S	0	49
♂ Mars	5	12	31	10	26	N.	6	33	21	2	3	13	34	N	6	1
♃ Jupiter	9	13	37	8	44	S.	18	20	25	13	42	9	7	S	17	22
♄ Saturn	13	12	24	0	1	S.	16	52	29	12	24	0	8	N	15	48

M D	☽ Pl.	☽ Age	Moon sets.		Moon south.		H.W. Phila.	
1	♊	11	4	26	9	42	11	30
2	16	12	5	19	10	31	12	19
3	27	13	6	8	11	19	1	7
4	♋	14	rises.		morn.		1	43
5	21	15	5	37	0	7	2	19
6	♌	16	6	35	0	54	3	6
7	15	17	7	35	1	39	3	51
8	27	18	8	35	2	23	4	35
9	♍	19	9	35	3	7	5	19
10	22	20	10	38	3	50	6	2
11	♎	21	11	42	4	36	6	48
12	18	22	morn.		5	22	7	34
13	♏	23	0	47	6	11	8	23
14	15	24	1	56	7	5	9	17
15	♐	25	3	6	8	3	10	15
16	14	26	4	13	9	4	11	16
17	29	27	5	16	10	7	12	19
18	♑	28	6	12	11	10	1	22
19	29	29	sets.		aft.	10	2	10
20	♒	1	6	43	1	7	2	55
21	29	2	7	55	2	1	3	49
22	♓	3	9	5	2	52	4	40
23	27	4	10	12	3	40	5	28
24	♈	5	11	17	4	28	6	16
25	24	6	morn.		5	14	7	2
26	♉	7	0	20	6	1	7	49
27	19	8	1	20	6	49	8	37
28	♊	9	2	18	7	37	9	25
29	12	10	3	13	8	26	10	14
30	24	11	4	3	9	15	11	3
31	♋	12	4	49	10	3	11	51

Telescopic Appearance of the Moon's Surface.

[Extracted from Professor O. M. Mitchell's, Lectures, delivered in New York, in 1847.]

Those who for the first time behold the moon's surface through a powerful instrument, will always be disappointed in its appearance. There are mighty mountains on its surface; there are deep cavities, some perhaps fifteen, twenty, forty, and even sixty miles in diameter, and sinking below the surface seven and eight thousand feet. Out of these, mighty rocks arise two thousand feet above the level of the valley, casting their deep black shadows upon the plains below. All these things are very fine; and yet on looking at them through the telescope for the first time, one is invariably disappointed. You cannot see mountains as you see them

MOON'S PHASES.

	N. York.			*Philada.*			*Baltimore*			*Cincinnati.*		
	D.	H.	M.	D.	H.	M.	D.	H.	M.	D.	H.	M.
○ Full Moon.	3	5	29	3	5	24	3	5	18	3	4	47 aft.
☾ Last Quar.	11	5	50	11	5	45	11	5	39	11	5	8 mor.
● New Moon.	17	10	10	17	10	5	17	9	59	17	9	28 aft.
☽ First Quar.	25	7	38	25	7	33	25	7	27	25	6	56 mor.

M D	W D	*Miscellanies.*	Sun rises	Sun sets.	Sun's dec. s.	Sun south H. M. S.
1	D	Aldebaran so. 7 41 ♘	7 11	5 17	17° 5′	12 13 53
2	2	☿ ☌ ♀	7 10	5 19	16 48	12 14 0
3	3	*Philadelphia Q. M.*	7 9	5 20	16 31	12 14 07
4	4	Sirius south 9 40	7 8	5 21	16 13	12 14 12
5	5	*Abington Q. M.*	7 7	5 22	15 55	12 14 17
6	6	Dr. Priestley d. 1804	7 5	5 23	15 36	12 14 21
7	7	♄ ☌ ☾	7 4	5 25	15 18	12 14 25
8	D	Daybreak 5 31	7 3	5 26	14 59	12 14 27
9	2	♃ ☌ ☾	7 2	5 27	14 40	12 14 29
10	3	Twilight ends 7 0	7 1	5 29	14 20	12 14 30
11	4	♃ stationary [1554.	7 0	5 30	14 0	12 14 30
12	5	Lady Jane Grey behead'd	6 59	5 31	13 41	12 14 30
13	6	Rigel so. 7 33 48	6 58	5 32	13 21	12 14 28
14	7	Sirius south 9 1 ♋	6 56	5 33	13 0	12 14 26
15	D	☾ in Perigee	6 55	5 34	12 40	12 14 24
16	2	☿ ☌ ☾	6 54	5 35	12 19	12 14 20
17	3	Days length 10 h. 48 min.	6 53	5 36	11 58	12 14 16
18	4	Martin Luther d. 1546	6 51	5 38	11 37	12 14 11
19	5	♀ ☌ ☾	6 50	5 39	11 16	12 14 6
20	6	Castor so. 9 23	6 49	5 40	10 54	12 14 0
21	7	☿ stationary	6 48	5 41	10 33	12 13 53
22	D	Washington born, 1732	6 46	5 42	10 11	12 13 45
23	2	♅ stationary	6 45	5 43	9 49	12 13 37
24	3	*Burlington Q. M.*	6 43	5 44	9 27	12 13 28
25	4	*Southern Q. M.*	6 42	5 46	9 5	12 13 19
26	5	*Bucks Q. M.*	6 40	5 47	8 42	12 13 9
27	6	☾ in Apogee. ♘	6 39	5 48	8 20	12 12 58
28	7	Sirius south 8 3 31	6 37	5 49	7 57	12 12 47

Planets' places in Right Ascension and Declination.

	M D	R. A. H.	R. A. M.	Declin. °	Declin. ′		P. M. H.	P. M. M.	M D	R. A. H.	R. A. M.	Declin. °	Declin. ′		P. M. H.	P. M. M.
♀ Venus	1	21	50	14	41	S	1	5	17	23	6	7	19	S	1	18
♂ Mars	5	2	35	16	25	N	5	34	21	3	11	19	11	N	5	7
♃ Jupiter	9	13	44	9	13	S	16	25	25	13	43	9	3	S	15	21
♄ Saturn	13	12	22	0	25	N	14	47	28	12	18	0	49	N	13	45

M D	☽ Pl.	☽ Age	Moon sets.	Moon south.	H.W. Phila.
1	18	13	5 28	10 51	12 39
2	♌	14	6 5	11 36	1 24
3	12	15	rises.	morn.	1 58
4	24	16	6 27	0 21	2 33
5	♍	17	7 27	1 5	3 17
6	19	18	8 30	1 49	4 1
7	♎	19	9 34	2 34	4 46
8	15	20	10 38	3 20	5 32
9	28	21	11 45	4 8	6 20
10	♏	22	morn.	4 59	7 11
11	25	23	0 53	5 54	8 6
12	♐	24	1 58	6 51	9 3
13	24	25	3 1	7 52	10 4
14	♑	26	3 58	8 52	11 4
15	23	27	4 48	9 52	12 4
16	♒	28	5 31	10 50	1 2
17	22	29	6 9	11 45	1 57
18	♓	0	sets.	af. 38	2 38
19	21	1	7 51	1 28	3 16
20	♈	2	8 57	2 17	4 5
21	19	3	10 2	3 5	4 53
22	♉	4	11 5	3 53	5 41
23	14	5	morn.	4 42	6 30
24	27	6	0 6	5 31	7 19
25	♊	7	1 3	6 20	8 8
26	21	8	1 56	7 9	8 57
27	♋	9	2 43	7 57	9 45
28	14	10	3 26	8 45	10 33

in the Highlands of New York: you cannot see the gray rocks projecting so beautifully as you behold them on some earthly mountain height. Remember, after your telescope has carried you out as far as it can reach, there is yet a whole hundred miles to be overcome. So, in spite of all you can do, and with all the aid you can bring, you are a hundred miles from the object. But do we know nothing of the moon? Are we so far off that we can tell nothing of the characteristics of its surface? I answer: we know that towering mountains lift their lofty heads, deep caverns yawn, and there are vast circular elevations resembling the usual productions of volcanic action. And how do we determine these things? By the lights and shadows which show themselves to the

MOON'S PHASES.

	N. York.			*Philada.*			*Baltimore*			*Cincinnati.*		
	D.	H.	M	D.	H.	M.	D.	H.	M.	D.	H.	M.
○ Full Moon.	5	9	50	5	9	45	5	9	39	5	9	8 mor.
☾ Last Quar.	12	1	59	12	1	54	12	1	48	12	1	17 aft.
● New Moon.	19	9	41	19	9	36	19	9	30	19	8	59 mor.
☽ First Quar.	27	4	2	27	3	57	27	3	51	27	3	20 mor.

M D	W D	*Miscellanies.*		Sun rises	Sun sets.	Sun's dec.	Sun south H.	M.	S.
1	D	Rigel south 6 31	♋	6 36	5 50	7°35′	12	12	35
2	2	Daybreak 5 2		6 35	5 51	7 12	12	12	23
3	3	Procyon south 8 47		6 33	5 52	6 49	12	12	10
4	4	☿ in ♍		6 31	5 53	6 26	12	11	57
5	5	*Salem Q. M.*		6 30	5 55	6 3	12	11	44
6	6	♄ ☌ ☾		6 29	5 56	5 39	12	11	29
7	7	☿ grt elong W.		6 27	5 57	5 16	12	11	15
8	D	♃ ☌ ☾		6 26	5 58	4 53	12	11	0
9	2	Twilight ends 7 31		6 24	5 59	4 29	12	10	45
10	3	Pollux so. 8 24		6 22	6 0	4 6	12	10	29
11	4	B West, died 1820.		6 20	6 1	3 42	12	10	13
12	5	*Haddonfield Q. M.*		6 19	6 2	3 19	12	9	57
13	6	Sirius south 7 14 31	♋	6 17	6 3	2 55	12	9	40
14	7	☿ in Aphelion.		6 15	6 4	2 31	12	9	24
15	D	☽ in Perigee		6 13	6 5	2 8	12	9	7
16	2	Procyon so. 7 56		6 11	6 6	1 44	12	8	50
17	3	☿ ☌ ☾		6 10	6 7	1 20	12	8	32
18	4	Revolt at Milan, 1848.		6 8	6 8	0 57	12	8	15
19	5	Days and nights equal		6 6	6 9	0 33	12	7	57
20	6	☉ ent. ♈ Spring com.		6 5	6 10	S 9	12	7	39
21	7	♀ ☌ ☾		6 3	6 11	N 14	12	7	21
22	D	Regulus so. 10 0 29		6 1	6 12	0 38	12	7	3
23	2	♄ ☍ ☉		6 0	6 13	1 2	12	6	45
24	3	♁ ☌ ☾		5 58	6 14	1 25	12	6	26
25	4	♅ ☌ ☾		5 56	6 15	1 49	12	6	8
26	5	Days length 12 22		5 55	6 16	2 12	12	5	49
27	6	☾ in Apogee	♋	5 54	6 17	2 36	12	5	31
28	7	Days increase 3 6		5 52	6 18	2 59	12	5	12
29	D	Soult, born 1765.		5 51	6 19	3 23	12	4	54
30	2	Rigel sets 10 9		5 49	6 20	3 46	12	4	35
31	3	♀ in ♌		5 48	6 21	4 9	12	4	17

Planets' places in Right Ascension and Declination.

	M D	R. A. H. M.	Declin. ° ′	P. M. H. M	M D	R. A. H. M.	Declin. ° ′	P. M. H. M.
♀ Venus	1	0 1	1 13 S	1 26	17	1 13	7 2 N	1 35
♂ Mars	5	3 40	20 59 N	4 49	21	4 21	22 55 N	4 26
♃ Jupiter	9	13 40	8 45 S	14 31	25	13 34	8 9 S	13 22
♄ Saturn	13	12 15	1 13 N	12 50	29	12 10	1 43 N	11 43

M D.	☽ Pl.	☽ Age	Moon sets.	Moon south.	H.W. Phila.
1	26	11	4 3	9 31	11 19
2	♌	12	4 37	10 16	12 4
3	20	13	5 7	11 1	12 49
4	♍	14	5 37	11 46	1 34
5	16	15	rises.	morn.	2 8
6	29	16	7 25	0 31	2 42
7	♎	17	8 30	1 18	3 30
8	25	18	9 37	2 6	4 18
9	♏	19	10 45	2 57	5 9
10	22	20	11 51	3 51	6 3
11	♐	21	morn.	4 47	6 59
12	20	22	0 54	5 45	7 59
13	♑	23	1 52	6 44	8 56
14	18	24	2 43	7 43	9 55
15	♒	25	3 26	8 39	10 51
16	17	26	4 5	9 34	11 46
17	♓	27	4 40	10 26	12 38
18	16	28	5 12	11 16	1 28
19	♈	29	sets.	aft. 5	2 5
20	13	1	7 43	0 54	2 42
21	27	2	8 48	1 43	3 31
22	♉	3	9 50	2 32	4 20
23	20	4	10 50	3 21	5 9
24	♊	5	11 45	4 11	5 59
25	16	6	morn.	5 1	6 49
26	28	7	0 35	5 50	7 38
27	♋	8	1 20	6 38	8 26
28	22	9	1 59	7 24	9 12
29	♌	10	2 34	8 9	9 57
30	16	11	3 6	8 54	10 42
31	28	12	3 36	9 39	11 27

eye, we measure the height of these mountains, by remarking the relative position of the sun and earth. We mark the extremities of their long deep shadows, and find that as the sun slowly rises, the shadows by degrees recede toward the base of the mountains; and when noon-day arrives they entirely disappear. Then as the sun begins to decline on the other side, the same dark shadows are cast in the opposite directions. We watch these movements till we ascertain with perfect certainty the character of the object which casts the shadow, and we measure its height. These are reliable facts. But the question next comes: how is it possible to measure the depths of these deep cavities? It appears as if immense lakes had once filled, and by some extraordinary means the water had been evaporated, leaving the interior

MOON'S PHASES.

	N. York.			*Philada.*			*Baltimore*			*Cincinnati.*			
	D.	H.	M.	D.	H.	M.	D.	H.	M.	D.	H.	M.	
○ Full Moon.	3	11	13	3	11	8	3	11	2	3	10	31	aft.
☾ Last Quar.	10	8	27	10	8	22	10	8	16	10	7	45	aft.
● New Moon.	17	10	9	17	10	4	17	9	58	17	9	27	aft.
☽ First Quar.	25	11	12	25	11	7	25	11	1	25	10	30	aft.

M D	M D	*Miscellanies.*		Sun rises.	Sun sets.	Sun's dec. N.	Sun south H.	M.	S.
1	4	Sirius sets 11 2	♋	5 46	6 22	4°32′	12	3	59
2	5	Jefferson, born 1743.		5 44	6 23	4 55	12	3	40
3	6	♄ ☌ ☾		5 43	6 24	5 18	12	3	22
4	7	☿ grt. Hel. Lat. S.		5 41	6 25	5 41	12	3	4
5	D	♃ ☌ ☾ Easter.		5 39	6 26	6 4	12	2	47
6	2	Regulus so. 9 1 35		5 38	6 27	6 27	12	2	29
7	3	♁ ☌ ♅		5 37	6 28	6 50	12	2	11
8	4	Rittenhouse b. 1732		5 35	6 29	7 12	12	1	54
9	5	☾ in perigee	♌	5 33	6 30	7 34	12	1	37
10	6	Rigel sets 9 20		5 32	6 31	7 57	12	1	21
11	7	Twilight ends 8 9		5 30	6 32	8 19	12	1	4
12	D	♃ ☍ ☉ Clay, b. 1777.		5 29	6 33	8 41	12	0	48
13	2	Antares rises 10 29.		5 27	6 34	9 2	12	0	33
14	3	Days length 13 12		5 25	6 35	9 24	12	0	17
15	4	Shakspere, born 1564.		5 23	6 36	9 46	12	0	2
16	5	Regulus so. 8 22 23		5 22	6 37	10 7	11	59	48
17	6	☿ ☌ ☾		5 20	6 38	10 28	11	59	34
18	7	Sirius sets 9 56		5 18	6 39	10 49	11	59	20
19	D	Bat. Lexington 1775		5 17	6 40	11 10	11	59	6
20	2	♀ ☌ ☾		5 15	6 41	11 31	11	58	53
21	3	*Western Q. M.*		5 14	6 42	11 51	11	58	40
22	4	♁ ☌ ☾		5 13	6 43	12 12	11	58	28
23	5	*Caln Q. M.*	♋	5 12	6 44	12 32	11	58	16
24	6	☽ in Apogee		5 11	6 45	12 52	11	58	5
25	7	Cromwell, born 1599.		5 9	6 46	13 11	11	57	54
26	D	Alioth in Merid. 10 27.		5 8	6 47	13 31	11	57	44
27	2	☿ in Perihelion.		5 7	6 48	13 50	11	57	34
28	3	*Concord Q. M.*		5 5	6 49	14 9	11	57	24
29	4	Rufus King, died 1827.		5 4	6 50	14 28	11	57	15
30	5	♄ ☌ ☾		5 3	6 51	14 46	11	57	7

Planets' places in Right Ascension and Declination.

	M D	R. A. H.	R. A. M.	Declin. °	Declin. ′		P. M. H.	P. M. M.	M D	R. A. H.	R. A. M.	Declin. °	Declin. ′		P. M. H.	P. M. M.
♀ Venus	1	2	22	14	9	N	1	45	17	3	39	20	20	N	1	59
♂ Mars	5	5	0	24	10	N	4	6	21	5	43	24	49	N	3	46
♃ Jupiter	9	13	27	7	28	S	12	16	25	13	20	6	43	S	11	6
♄ Saturn	13	12	6	2	9	N	10	40	29	12	3	2	31	N	9	33

M D	☽ Pl.	☽ Age	Moon sets.	Moon south.	H. W. Phila.
1	♍	13	4 5	10 24	12 12
2	24	14	4 33	11 10	12 58
3	♎	15	5 3	11 59	1 47
4	21	16	rises.	morn.	2 25
5	♏	17	8 32	0 50	3 2
6	19	18	9 40	1 44	3 56
7	♐	19	10 44	2 40	4 52
8	17	20	11 46	3 39	5 51
9	♑	21	morn.	4 39	6 51
10	15	22	0 39	5 38	7 50
11	29	23	1 25	6 35	8 47
12	♒	24	2 6	7 30	9 42
13	27	25	2 41	8 20	10 32
14	♓	26	3 13	9 10	11 22
15	25	27	3 43	9 58	12 10
16	♈	28	4 13	10 46	12 58
17	22	29	4 45	11 34	1 46
18	♉	0	sets.	aft. 23	2 23
19	18	1	8 36	1 12	3 0
20	♊	2	9 33	2 2	3 50
21	12	3	10 26	2 52	4 40
22	24	4	11 13	3 42	5 30
23	♋	5	11 55	4 30	6 18
24	18	6	morn.	5 17	7 5
25	♌	7	0 32	6 2	7 50
26	12	8	1 3	6 47	8 35
27	24	9	1 34	7 31	9 19
28	♍	10	2 3	8 15	10 3
29	19	11	2 31	9 1	10 49
30	♎	12	3 1	9 47	11 35

dry, hard and sterile. We find these depths in like manner as we ascertain the height of mountains. When the sun is first rising, it casts its light into these cavities of the moon; we see shadows cast by the sunward sides, and the limits of the cavities are defined with a degree of accuracy surpassing anything upon the surface of the earth. For the shadows are not here so black as upon yonder orb. They are mitigated and dispersed through the influence of our atmosphere. But on the moon there is no atmosphere, at least not such a one as will compare at all with ours. The moon's atmosphere, if indeed it have one, can be no denser than the extremely rarified air left in the most perfect vacuum yet produced in an exhausted receiver. It cannot sustain animal life—it can-

MOON'S PHASES.

	N. York.			*Philada.*			*Baltimore*			*Cincinnati.*			
	D.	H.	M.	D.	H.	M	D.	H.	M.	D.	H.	M.	
○ Full Moon.	3	9	56	3	9	51	3	9	45	3	9	14	mor.
☾ Last Quar.	10	2	20	10	2	15	10	2	9	10	1	38	mor.
● New Moon.	17	11	53	17	11	48	17	11	42	17	11	11	mor.
☽ First Quar.	25	3	51	25	3	46	25	3	40	25	3	9	aft.

M D	W D	*Miscellanies.*	Sun rises.	Sun sets.	Sun's dec. N.	Sun south H. M. S.
1	6	♃ ♂ ☾ ♋	5 1	6 52	15° 4′	11 56 59
2	7	Sirius sets 9 0	5 0	6 53	15 22	11 56 51
3	D	♀ in Perihelion	4 59	6 54	15 40	11 56 45
4	2	Spica so. 10 28	4 58	6 55	15 58	11 56 38
5	3	*Philadelphia Q. M.*	4 57	6 56	16 15	11 56 32
6	4	☾ in perigee	4 56	6 57	16 32	11 56 27
7	5	*Abington Q. M.* ♋	4 55	6 58	16 49	11 56 23
8	6	☿ grt. Hel. Lat. N.	4 54	6 59	17 5	11 56 19
9	7	Battle Resaca de la Palma,	4 53	7 0	17 21	11 56 15
10	D	Alioth in Merid. 9 32 [1846	4 52	7 1	17 37	11 56 12
11	2	*Philadelphia Y. M.*	4 51	7 2	17 53	11 56 10
12	3	Twilight ends 8 53	4 50	7 3	18 8	11 56 8
13	4	Days increase 4 h. 56 m.	4 49	7 4	18 23	11 56 7
14	5	Spica so. 9 48 52	4 48	7 5	18 38	11 56 7
15	6	O'Connell, died 1847	4 47	7 6	18 52	11 56 7
16	7	Daybreak 2 54	4 46	7 7	19 6	11 56 7
17	D	☉ eclipsed, invisible.	4 45	7 8	19 20	11 56 9
18	2	☿ ♂ ♅	4 44	7 8	19 33	11 56 11
19	3	☿ grt. elong E.	4 43	7 9	19 46	11 56 13
20	4	♀ ♂ ☾ ♋	4 42	7 10	19 59	11 56 16
21	5	♄ ♂ ☾	4 41	7 11	20 11	11 56 19
22	6	Alioth in Merid. 8 45	4 41	7 12	20 23	11 56 23
23	7	☾ in Apogee	4 40	7 13	20 35	11 56 28
24	D	Victoria, born 1819	4 39	7 14	20 46	11 56 33
25	2	*New York Y. M.*	4 38	7 15	20 57	11 56 38
26	3	*Burlington Q. M.*	4 38	7 16	21 8	11 56 44
27	4	*Southern Q. M.*	4 37	7 17	21 18	11 56 51
28	5	*Bucks Q. M.*	4 36	7 18	21 28	11 56 57
29	6	♃ ♂ ☾	4 36	7 18	21 37	11 57 5
30	7	Arcturus so. 9 37	4 35	7 19	21 46	11 57 13
31	D	☿ stationary	4 34	7 20	21 55	11 57 21

Planets' places in Right Ascension and Declination.

	M D	R. A. H.	M.	Declin. °	′		P. M. H.	M.	M D	R. A. H.	M.	Declin. °	′		P. M. H.	M.
♀ Venus	1	4	50	23	55	N	2	15	17	6	13	25	24	N	2	35
♂ Mars	5	6	20	24	46	N	3	29	21	7	3	24	2	N	3	9
♃ Jupiter	9	13	14	6	10	S	10	5	25	13	9	5	44	S	8	57
♄ Saturn	13	12	0	2	42	N	8	36	29	11	59	2	46	N	7	32

M D	☽ Pl.	☽ Age	Moon sets.		Moon south.		H. W. Phila.	
1	16	13	3	31	10	38	12	26
2	29	14	4	5	11	31	1	19
3	♏	15	rises.		morn.		2	0
4	28	16	8	31	0	28	2	40
5	♐	17	9	37	1	28	3	40
6	27	18	10	32	2	30	4	42
7	♑	19	11	24	3	30	5	42
8	26	20	morn.		4	30	6	42
9	♒	21	0	6	5	25	7	37
0	24	22	0	41	6	17	8	29
1	♓	23	1	14	7	7	9	19
2	22	24	1	46	7	56	10	8
3	♈	25	2	17	8	43	10	55
4	18	26	2	46	9	30	11	42
5	♉	27	3	18	10	17	12	29
6	16	28	3	53	11	6	1	18
7	26	29	4	30	11	55	2	7
8	☐	1	sets.		aft.	45	2	45
9	21	2	9	8	1	35	3	23
0	♋	3	9	53	2	24	4	12
1	14	4	10	30	3	12	5	0
2	26	5	11	4	3	57	5	45
3	♌	6	11	35	4	42	6	30
4	20	7	morn.		5	26	7	14
5	♍	8	0	4	6	9	7	57
6	14	9	0	31	6	52	8	40
7	27	10	0	59	7	38	9	26
8	♎	11	1	29	8	25	10	13
9	24	12	2	0	9	16	11	4
0	♏	13	2	35	10	11	11	59
1	22	14	3	17	11	10	12	58

not support clouds, nor can it sustain combustion. And, for the reason that the Moon has no atmosphere, there is no gradual fading away of the light, as the sun sinks deeper below the horizon—no soft, mild and lovely twilight, such as sheds a holy serenity over our favored globe—but instantaneous and appalling darkness follows the setting of the sun, drear as the night of death; and broken—not by the "rosy fingered morn," slowly waxing from faint streaks of light to the fullness of the day spring—but startled from the very depth of blackness by the lightning-flash of the sun's meridian glory.

How the Bible was Translated.

We are indebted to King James for the excellent translation of the Bible now in use. It was undertaken in perform-

MOON'S PHASES.

	N. York.			*Philada.*			*Baltimore*			*Cincinnati.*		
	D.	H.	M.	D.	H.	M.	D.	H.	M.	D.	H.	M.
○ Full Moon.	1	6	34	1	6	29	1	6	23	1	5	52 aft.
☾ Last Quar.	8	8	56	8	8	51	8	8	45	8	8	14 mor.
● New Moon.	16	2	40	16	2	35	16	2	29	16	1	58 mor.
☽ First Quar.	24	5	35	24	5	30	24	5	24	24	4	53 mor.

M D	W D	*Miscellanies.*	Sun rises.	Sun sets.	Sun's dec. n.	Sun south. H.	M.	s.
1	2	*Canada H Y M* ♋	4 34	7 20	22° 3′	11	57	29
2	3	♄ stationary ♀ ☌ ♂	4 34	7 21	22 11	11	57	38
3	4	☾ in Perigee ♋	4 34	7 22	22 19	11	57	48
4	5	*Salem Q M.*	4 34	7 22	22 26	11	57	58
5	6	Spica so. 8 22	4 34	7 23	22 33	11	58	8
6	7	Patrick Henry, died 1799	4 33	7 23	22 39	11	58	18
7	D	Alioth in Merid. 7 43	4 33	7 24	22 46	11	58	29
8	2	Jackson d. 1845	4 33	7 25	22 51	11	58	40
9	3	♂ grt. Hel. Lat. N.	4 33	7 25	22 56	11	58	52
10	4	☿ in Aphelion	4 33	7 26	23 1	11	59	3
11	5	*Huddonfield Q. M.*	4 32	7 27	23 6	11	59	15
12	6	♅ ☌ ○	4 32	7 27	23 10	11	59	27
13	7	☿ in Inf. ☌ ☉	4 32	7 28	23 13	11	59	40
14	D	♄ stationary	4 32	7 28	23 16	11	59	52
15	2	*Genessee Y. M.*	4 32	7 29	23 19	12	0	5
16	3	☿ ☌ ☾	4 32	7 29	23 22	12	0	18
17	4	Arcturus so. 8 26 ♋	4 32	7 29	23 24	12	0	31
18	5	*Fishing Creek H. Y. M.*	4 32	7 30	23 25	12	0	44
19	6	♂ ☌ ☾	4 32	7 30	23 26	12	0	57
20	7	♀ ☌ ☾	4 32	7 30	23 27	12	1	10
21	D	☉ ent. ♋ Sum. com.	4 32	7 30	23 27	12	1	23
22	2	Longest day.	4 33	7 31	23 27	12	1	36
23	3	*Western Q M*	4 33	7 31	23 27	12	1	49
24	4	♄ ☌ ☾	4 33	7 31	23 26	12	2	2
25	5	*Caln Q. M.* ♃ ☌ ☾	4 33	7 31	23 24	12	2	15
26	6	Day's length 14 h. 59 m.	4 34	7 31	23 23	12	2	27
27	7	Antares so. 9 58	4 34	7 31	23 21	12	2	40
28	D	Jas Madison. died 1836	4 34	7 31	23 18	12	2	52
29	2	Twilight ends 9 24	4 35	7 31	23 15	12	3	4
30	3	*Concord Q. M.* ♋	4 35	7 31	23 12	12	3	16

Planets' places in Right Ascension and Declination.

	M D	R. A. H. M.	Declin. ° ′	P. M. H. M.	M D	R. A. H. M.	Declin. ° ′	P. M. H. M.
♀ Venus	1	7 29	24 7 N	2 52	17	8 45	20 11 N	3 5
♂ Mars	5	7 43	22 40 N	2 49	21	8 25	20 36 N	2 28
♃ Jupiter	9	13 7	5 35 S	7 56	25	13 7	5 42 S	6 53
♄ Saturn	13	12 0	2 40 N	6 33	29	12 2	2 24 N	5 33

M D	☽ Pl.	☽ Ag.	Moon rises.	Moon south	H. W. Phila.
1	♐	15	7 18	morn.	1 41
2	21	16	8 21	0 12	2 24
3	♑	17	9 15	1 15	3 27
4	21	18	10 3	2 17	4 29
5	♒	19	10 42	3 17	5 29
6	21	20	11 16	4 12	6 24
7	♓	21	11 48	5 3	7 15
8	19	22	morn.	5 53	8 5
9	♈	23	0 19	6 41	8 53
10	15	24	0 49	7 28	9 40
11	28	25	1 20	8 15	10 27
12	♉	26	1 53	9 3	11 15
13	23	27	2 30	9 51	12 3
14	♊	28	3 11	10 41	12 53
15	17	29	3 57	11 30	1 42
16	29	0	sets.	aft. 20	2 20
17	♋	1	8 30	1 8	2 56
18	23	2	9 6	1 54	3 42
19	♌	3	9 37	2 39	4 27
20	17	4	10 7	3 23	5 11
21	29	5	10 35	4 6	5 54
22	♍	6	11 1	4 48	6 36
23	23	7	11 28	5 31	7 19
24	♎	8	11 59	6 17	8 5
25	19	9	morn.	7 5	8 53
26	♏	10	0 31	7 56	9 44
27	16	11	1 8	8 51	10 39
28	♐	12	1 52	9 52	11 40
29	15	13	2 46	10 54	12 42
30	♑	14	3 48	11 58	1 46

ance of a promise made at Hampton Court Conference; and Dr. Reynolds, the great champion of the Puritans, by whom it was then suggested, was one of the divines engaged in its execution. Forty-seven of the best biblical scholars undertook the great labor of love, who divided themselves into six classes, each undertaking a portion of the scriptures. Each member of a class translated the whole of the portion set apart to his class, then the class met, and revised as a body their separate versions. One general version was next agreed upon by the class, which was subsequently revised by each of the other classes. Two of the classes sat at Cambridge, two at Oxford, and two at Westminster. Three years were spent in the undertaking, namely, from 1607 to 1611. The new version

MOON'S PHASES.

	N. York.			*Philada.*			*Baltimore*			*Cincinnati.*			
	D.	H.	M.	D.	H.	M.	D.	H.	M.	D.	H.	M.	
○ Full Moon.	1	1	50	1	1	45	1	1	39	1	1	8	mor.
☾ Last Quar.	7	5	33	7	5	28	7	5	22	7	4	51	aft.
● New Moon.	15	5	58	15	5	53	15	5	47	15	5	16	aft.
☽ First Quar.	23	4	36	23	4	31	23	4	25	23	3	54	aft.
○ Full Moon.	30	8	37	30	8	32	30	8	26	30	7	55	mor.

M D.	W D	*Miscellanies.*	Sun rises.	Sun sets.	Sun's dec. N.	Sun s'th. H.	M.	S.
1	4	☾ in Perigee ♋	4 35	7 31	23° 8′	12	3	28
2	5	Antares so. 9 38 50	4 36	7 31	23 4	12	3	39
3	6	☉ in Apogee	4 36	7 31	22 59	12	3	50
4	7	Jefferson, Adams, Mon-	4 37	7 30	22 54	12	4	1
5	D	☿ ☌ ♅ [roe, died	4 38	7 30	22 49	12	4	12
6	2	Ch Jus Marshall, d. 1837	4 38	7 30	22 43	12	4	22
7	3	☿ grt. Elong. W.	4 39	7 30	22 37	12	4	32
8	4	Daybreak 2 38	4 40	7 30	22 30	12	4	41
9	5	Z. Taylor, died 1850.	4 40	7 29	22 23	12	4	51
10	6	♃ ☌ ☉	4 41	7 29	22 16	12	5	0
11	7	Twilight ends 9 27	4 42	7 29	22 8	12	5	8
12	D	Antares so. 8 59 10	4 43	7 28	22 0	12	5	16
13	2	☿ ☌ ☾	4 43	7 28	21 51	12	5	23
14	3	♄ in Aphelion ♎	4 44	7 27	21 42	12	5	30
15	4	☾ in Apogee	4 45	7 27	21 33	12	5	37
16	5	Spica sets 11 6	4 46	7 26	21 24	12	5	43
17	6	♄ ☌ ☾	4 46	7 26	21 14	12	5	49
18	7	Hampden, killed 1643	4 47	7 25	21 3	12	5	54
19	D	♀ ☌ ☾	4 48	7 24	20 53	12	5	58
20	2	♀ grt. Elong. E.	4 49	7 23	20 42	12	6	2
21	3	*Western Q. M.* ♄ ☌ ☾	4 50	7 22	20 30	12	6	6
22	4	♃ ☌ ☾	4 50	7 21	20 18	12	6	8
23	5	*Caln Q. M.*	4 51	7 21	20 6	12	6	11
24	6	Antares so. 8 11 43	4 52	7 20	19 54	12	6	12
25	7	☿ in Perihelion	4 53	7 19	19 41	12	6	13
26	D	Days length 14 h. 27 m.	4 54	7 18	19 28	12	6	14
27	2	Vega in Merid. 10 10	4 55	7 18	19 15	12	6	14
28	3	*Concord Q. M.* ♋	4 56	7 17	19 1	12	6	13
29	4	☾ in Perigee	4 57	7 16	18 47	12	6	11
30	5	Day's decrease 40 m.	4 57	7 15	18 33	12	6	9
31	6	Spica sets 10 6	4 48	7 14	18 18	12	6	7

Planets' places in Right Ascension and Declination.

	M D	R. A. H.	R. A. M.	Declin. °	Declin. ′		P. M. H.	P. M. M	M D	R. A. H.	R. A. M.	Declin. °	Declin. ′		P. M. H.	P. M. M.
♀ Venus	1	9	46	15	7	N	3	10	17	10	46	8	13	N	3	7
♂ Mars	5	9	0	18	18	N	2	8	21	9	40	15	11	N	1	45
♃ Jupiter	9	13	10	6	2	S	6	1	25	13	15	6	39	S	5	4
♄ Saturn	13	12	4	2	2	N	4	40	29	12	9	1	30	N	3	38

M D.	☽ Pl.	☽ Ag.	Moon rises	Moon south.	H.W. Phila.
1	15	15	7 52	morn.	2 29
2	♒	16	8 36	1 0	3 12
3	15	17	9 15	1 59	4 11
4	♓	18	9 49	2 54	5 6
5	14	19	10 21	3 46	5 58
6	28	20	10 52	4 36	6 48
7	♈	21	11 24	5 25	7 37
8	25	22	11 56	6 13	8 25
9	♉	23	morn.	7 1	9 13
10	20	24	0 32	7 49	10 1
11	☐	25	1 11	8 38	10 50
12	14	26	1 54	9 27	11 39
13	26	27	2 43	10 16	12 28
14	♋	28	3 35	11 5	1 17
15	20	29	4 30	11 52	2 4
16	☊	1	sets.	aft. 37	2 37
17	14	2	8 10	1 21	3 9
18	26	3	8 39	2 5	3 53
19	♍	4	9 6	2 47	4 35
20	20	5	9 33	3 30	5 18
21	♎	6	10 0	4 13	6 1
22	15	7	10 31	4 59	6 47
23	28	8	11 6	5 48	7 36
24	♏	9	11 46	6 40	8 28
25	25	10	morn.	7 36	9 24
26	♐	11	0 33	8 36	10 24
27	23	12	1 30	9 37	11 25
28	♑	13	2 34	10 40	12 28
29	23	14	3 46	11 40	1 28
30	♒	15	rises.	morn.	2 10
31	24	19	7 45	0 39	2 51

was dedicated to the King, and printed by Robert Barker in the year of its completion. The excellence of the translation is universally acknowledged; and though in consequence of the changes which our forms of speech have since undergone, many expressions in it may now appear unrefined or homely, its general effect is far more impressive than that of a more polished translation. Up to the time of James I., all Bibles were printed in German character or black-letter; but, after that date, the Roman letters were adopted, and soon superseded the old-fashioned manner of printing. The appearance of King James's Bible, forms almost one of the most important events in the history of the English language; it had the immediate effect of recommending to common use a very considerable number of words

MOON'S PHASES.

	N. York.			*Philada.*			*Baltimore*			*Cincinnati.*			
	D.	H.	M.	D.	H.	M.	D.	H.	M.	D.	H.	M.	
☾ Last Quar.	6	5	9	6	5	4	6	4	58	6	4	27	mor.
● New Moon.	14	9	7	14	9	2	14	8	56	14	8	25	mor.
☽ First Quar.	22	1	24	22	1	19	22	1	13	22	0	42	mor.
○ Full Moon.	28	3	59	28	3	54	28	3	48	28	3	17	aft.

M D.	W D	*Miscellanies.*	Sun rises.		Sun sets.		Sun's dec. N.		Sun	s'th.	
									H.	M.	S.
1	7	J. Edwards d. 1801 ♃	4	59	7	13	18°	3′	12	6	3
2	D	☿ in Sup. ☌ ☉	5	0	7	12	17	48	12	6	0
3	2	☿ grt. Hel. Lat. N.	5	1	7	11	17	32	12	5	55
4	3	*Philadelphia Q. M.*	5	2	7	10	17	16	12	5	50
5	4	Jesse Kersey b. 1768.	5	3	7	9	17	0	12	5	44
6	5	*Abington Q. M.*	5	4	7	8	16	42	12	5	38
7	6	Antares so. 7 16 43	5	5	7	6	16	27	12	5	32
8	7	Day-break 3 19	5	6	7	5	16	10	12	5	24
9	D	♅ ☌ ☾	5	7	7	4	15	53	12	5	17
10	2	Twilight ends 8 47 ♘	5	7	7	2	15	36	12	5	8
11	3	☽ in Apogee	5	8	7	1	15	18	12	4	59
12	4	Albert Gallatin d. 1849	5	9	6	59	15	0	12	4	50
13	5	Vega in merid. 9 4 25	5	10	6	58	14	42	12	4	39
14	6	Printing invented, 1437	5	11	6	57	14	24	12	4	29
15	7	☿ ☌ ☾	5	12	6	56	14	5	12	4	18
16	D	♄ ☌ ☾	5	13	6	55	13	46	12	4	6
17	2	♀ ☌ ♄ ♄ ☌ ☾	5	14	6	53	13	27	12	3	54
18	3	♀ ☌ ☾ ☿ ☌ ♄	5	15	6	52	13	8	12	3	41
19	4	♃ ☌ ☾	5	16	6	51	12	48	12	3	28
20	5	Altair so. 9 48	5	17	6	49	12	29	12	3	14
21	6	Day's length 13 h. 32 m.	5	18	6	48	12	9	12	3	0
22	7	Bat. Bosworth field, 1485	5	19	6	46	11	49	12	2	45
23	D	♀ at grt. brilliancy	5	20	6	45	11	28	12	2	30
24	2	♀ in Aphelion	5	21	6	43	11	8	12	2	14
25	3	Fomalhaut rises 8 30	5	22	6	42	10	47	12	1	58
26	4	*Southern Q. M.*	5	23	6	40	10	26	12	1	41
27	5	*Bucks Q. M.*	5	24	6	39	10	6	12	1	24
28	6	Vega in merid. 8 4	5	25	6	38	9	44	12	1	7
29	7	Day's decrease 1 h. 48 m.	5	26	6	36	9	23	12	0	50
30	D	Altair so. 9 7 56	5	27	6	35	9	2	12	0	31
31	2	*Ohio Y. M.*	5	28	6	34	8	40	12	0	13

Planet's places in Right Ascension and Declination.

	M D	R. A. H. M.	Declin. ° ′	P. M. H. M	M D	R. A. H. M.	Declin. ° ′	P. M. H. M.
♀ Venus	1	11 35	1 22 N	2 57	17	12 15	5 28 S	2 34
♂ Mars	5	10 16	11 53 N	1 22	21	10 54	8 3 N	0 57
♃ Jupiter	9	13 22	7 25 S	4 12	25	13 31	8 23 S	3 18
♄ Saturn	13	12 14	0 55 N	2 48	29	12 20	0 12 N	1 51

M D	☽ P.	☽ A.	Moon rises.	Moon south.	H.W. Phila.
1	♓	17	8 19	1 34	3 46
2	23	18	8 52	2 27	4 39
3	♈	19	9 24	3 17	5 29
4	21	20	9 56	4 6	6 18
5	♉	21	10 33	4 56	7 8
6	17	22	11 11	5 45	7 57
7	29	23	11 54	6 34	8 46
8	♊	24	morn.	7 24	9 36
9	23	25	0 40	8 13	10 25
10	♋	26	1 31	9 2	11 14
11	17	27	2 25	9 49	12 1
12	29	28	3 21	10 35	12 47
13	♌	29	4 19	11 20	1 32
14	23	30	sets.	Aft 3	2 3
15	♍	1	7 10	0 46	2 34
16	17	2	7 38	1 29	3 17
17	29	3	8 5	2 12	4 0
18	♎	4	8 34	2 58	4 46
19	25	5	9 7	3 44	5 32
20	♏	6	9 45	4 35	6 23
21	21	7	10 28	5 28	7 16
22	♐	8	11 19	6 24	8 12
23	18	9	morn.	7 23	9 11
24	♑	10	0 19	8 23	10 11
25	17	11	1 24	9 23	11 11
26	♒	12	2 36	10 21	12 9
27	17	13	3 51	11 17	1 7
28	♓	14	rises.	morn.	1 45
29	17	15	6 48	0 11	2 23
30	♈	16	7 21	1 4	3 16
31	16	17	7 55	1 55	4 7

derived from the learned languages, for which the translators had been unable to find equivalents in the current English of the time. At present it performs a service of an opposite nature, and keeps in use, or at least in remembrance, many valuable words and expressive idioms which would otherwise have been rejected with disdain by the fastidiousness of modern taste as homely and familiar.

Culture of the Chinese Sugar Cane.

The Illinois Agricultural Society has published a valuable prize article on the culture of Sorghum and its manufacture into syrup and sugar. We give some extracts:

"The richest soil gives the largest growth of cane, but not the sweetest, and the syrup will rarely grain. It was found that cane from the post-oak flats and from the red clay soil near the timber was

MOON'S PHASES.

	N. York.			*Philada.*			*Baltimore*			*Cincinnati.*		
	D.	H.	M.	D.	H.	M.	D.	H.	M.	D.	H.	M.
☾ Last Quar.	4	8	13	4	8	8	4	8	2	4	7	31 aft.
● New Moon.	12	11	46	12	11	41	12	11	35	12	11	4 aft.
☽ First Quar.	20	8	37	20	8	32	20	8	26	20	7	55 mor.
○ Full Moon.	27	1	6	27	1	1	27	0	55	27	0	24 mor.

M D	W D	*Miscellanies.*	Sun rises.	Sun sets.	Sun's dec. N.	Sun s'th. H. M. S.
1	3	*Burlington Q. M.* ☾	5 29	6 32	8° 18′	11 59 55
2	4	London burnt, 1666.	5 30	6 30	7 57	11 59 36
3	5	Cromwell d. 1658.	5 30	6 28	7 35	11 59 16
4	6	☿ ☌ ♄	5 31	6 26	7 13	11 58 57
5	7	♀ stationary.	5 32	6 25	6 50	11 58 37
6	D	☿ in aphelion ♘	5 33	6 23	6 28	11 58 17
7	2	☿ ☌ ♀	5 34	6 22	6 6	11 57 57
8	3	☾ in apogee	5 35	6 20	5 43	11 57 37
9	4	Altair so. 8 29 21	5 36	6 18	5 20	11 57 17
10	5	*Salem Q M.*	5 37	6 17	4 58	11 56 56
11	6	M'Donough's vict'y, 1814	5 37	6 15	4 35	11 56 35
12	7	Wolfe & Montcalm d. 1759	5 38	6 13	4 12	11 56 15
13	D	♄ ☌ ☾	5 39	6 12	3 49	11 55 54
14	2	♄ ☌ ☾ ♀ ☌ ☾	5 40	6 10	3 26	11 55 33
15	3	☿ grt. elong. east	5 41	6 8	3 3	11 55 12
16	4	♀ grt. Hel. Lat. S.	5 42	6 7	2 40	11 54 51
17	5	*Haddonfield Q. M.*	5 43	6 5	2 16	11 54 30
18	6	♅ □ ☉	5 44	6 3	1 53	11 54 9
19	7	Aldebaran rises 9 36	5 45	6 2	1 30	11 53 47
20	D	Altair so. 7 50	5 46	6 0	1 7	11 53 26
21	2	Walter Scott d. 1832 ☾	5 47	5 59	0 43	11 53 5
22	3	Days and nights equal	5 48	5 57	0 20	11 52 44
23	4	☉ ent. ♎ ; autumn com.	5 49	5 55	S 3	11 52 23
24	5	☾ in Perigee	5 50	5 53	0 27	11 52 3
25	6	Twilight ends 7 25	5 51	5 52	0 50	11 51 42
26	7	Days decrease 3h. 0m.	5 52	5 50	1 14	11 51 22
27	D	☿ grt. Hel. Lat. S.	5 53	5 48	1 37	11 51 1
28	2	*Indiana Y. M.*	5 54	5 47	2 0	11 50 41
29	3	☿ stationary	5 55	5 45	2 24	11 50 21
30	4	Arcturus sets 8 44	5 56	5 44	2 47	11 49 2

Planets' places in Right Ascension and Declination.

	M D	R. A. H.	M.	Declin. °	′		P. M. H.	M.	M D	R. A. H.	M.	Declin. °	′		P. M. H.	M.
♀ Venus	1	12	36	10	24	s	1	55	17	12	28	12	1	s	0	44
♂ Mars	5	11	30	4	14	N	0	34	21	12	8	0	2	N	0	8
♃ Jupiter	9	13	41	9	23	s	2	29	25	13	53	10	33	s	1	38
♄ Saturn	13	12	27	0	30	s	0	59	29	12	34	1	16	s	0	0

M D	Pl. ☽	☽ Age	Moon rises.		Moon south.		H.W. Phila.	
1	29	18	8	30	2	46	4	58
2	♉	19	9	8	3	37	5	49
3	25	20	9	50	4	27	6	39
4	♊	21	10	36	5	17	7	29
5	20	22	11	26	6	7	8	19
6	♋	23	morn.		6	57	9	9
7	14	24	0	18	7	45	9	57
8	26	25	1	14	8	31	10	43
9	♌	26	2	10	9	16	11	28
10	19	27	3	8	10	0	12	12
11	♍	28	4	6	10	44	12	56
12	14	29	5	6	11	27	1	39
13	26	0	sets.		aft. 11		2	11
14	♎	1	6	39	0	56	2	44
15	22	2	7	11	1	43	3	31
16	♏	3	7	47	2	33	4	21
17	18	4	8	28	3	24	5	12
18	♐	5	9	15	4	19	6	7
19	15	6	10	11	5	16	7	4
20	29	7	11	13	6	14	8	2
21	♑	8	morn		7	12	9	0
22	27	9	0	21	8	9	9	57
23	♒	10	1	32	9	4	10	52
24	26	11	2	43	9	58	11	46
25	♓	12	3	54	10	50	12	38
26	25	13	5	6	11	42	1	30
27	♈	14	rises.		morn.		2	7
28	24	15	6	25	0	33	2	45
29	♉	16	7	2	1	25	3	37
30	20	17	7	45	2	16	4	28

much superior in richness to that from the black mould of the prairies. Sorghum proved superior to the Imphee, and to keep it pure, it should be planted at least a quarter of a mile distant from broom corn or 'chocolate corn.' Seed should be gathered from the earliest patches, should be fully ripe, and only the upper half of each head be planted, as that portion produces the most vigorous canes.

"The time of planting varies with the season, but it may safely be put in, a week or two before corn. A piece planted the first of March, was frozen in for nearly a month, but yielded a good crop of cane, which made a superior quality of light-colored syrup. Fall ploughing is advisable, repeating it in spring, and harrowing thoroughly. With abundance of land and scant

MOON'S PHASES.

	N. York.			*Philada.*			*Baltimore*			*Cincinnati.*		
	D.	H.	M.	D.	H.	M.	D.	H.	M.	D.	H.	M.
☾ Last Quar.	4	2	25	4	2	20	4	2	14	4	1	43 aft.
● New Moon.	12	1	46	12	1	41	12	1	35	12	1	4 aft.
☽ First Quar.	19	3	10	19	3	5	19	2	59	19	2	28 aft.
○ Full Moon.	26	1	0	26	0	55	26	0	49	26	0	18 aft.

M D.	W D	*Miscellanies.*	Sun rises.		Sun sets.		Sun's dec.		Sun s'th. H.	M.	S.
1	5	♄ ☌ ☉ ♋	5	57	5	43	3°	11′	11	49	42
2	6	♁ ☌ ☉	5	58	5	41	3	34	11	49	23
3	7	♁ ☌ ♄	5	59	5	39	3	57	11	49	5
4	D	Altair so. 6 51 39 ♓	6	0	5	38	4	20	11	48	47
5	2	Fomalhaut so. 9 52 56	6	1	5	36	4	43	11	48	29
6	3	☽ in Apogee	6	2	5	35	5	6	11	48	11
7	4	John Woolman d. 1772	6	3	5	33	5	30	11	47	54
8	5	John Hancock d. 1793.	6	4	5	32	5	53	11	47	37
9	6	Lewis Cass b. 1782.	6	5	5	30	6	15	11	47	21
10	7	♀ ☌ ☾	6	7	5	28	6	38	11	47	5
11	D	♄ ☌ ☾	6	8	5	27	7	1	11	46	49
12	2	♁ ☌ ☾ ☿ ☌ ☾	6	9	5	25	7	24	11	46	34
13	3	♃ ☌ ☾	6	10	5	24	7	46	11	46	20
14	4	Markab. so. 9 25	6	11	5	22	8	9	11	46	6
15	5	R. Barclay d. 1690.	6	12	5	20	8	31	11	45	53
16	6	☿ in ♌	6	13	5	19	8	53	11	45	40
17	7	♀ stationary	6	14	5	17	9	15	11	45	28
18	D	☿ ☌ ♄ ♋	6	15	5	16	9	37	11	45	16
19	2	☿ stationary	6	17	5	14	9	59	11	45	5
20	3	☽ in Perigee. *Western Q. M.*	6	18	5	13	10	20	11	44	55
21	4	☿ in perihelion.	6	19	5	11	10	42	11	44	45
22	5	*Caln Q. M.*	6	20	5	10	11	3	11	44	36
23	6	D. Webster d. 1852.	6	22	5	8	11	24	11	44	27
24	7	Aldebaran rises 7 18	6	23	5	6	11	45	11	44	19
25	D	Day's length 10 h. 48 m.	6	24	5	5	12	6	11	44	12
26	2	*Baltimore Y. M.*	6	25	5	3	12	27	11	44	6
27	3	*Concord Q. M.*	6	26	5	2	12	47	11	44	0
28	4	Daybreak 4 53	6	27	5	1	13	8	11	43	55
29	5	Rigel rises 9 3	6	28	5	0	13	28	11	43	51
30	6	♅ ☌ ☾	6	29	4	59	13	47	11	43	48
31	7	♃ ☌ ☉ ♓	6	30	4	58	14	7	11	43	45

Planets' places in Right Ascension and Declination.

	M D	R. A. H. M.	Declin. ° ′		P. M. H. M.	M D	R. A. H. M.	Declin. ° ′		P. M. H. M.
♀ Venus	1	12 0	8 50	s	23 16	17	11 42	3 29	s	21 57
♂ Mars	5	12 41	3 40	s	23 45	21	13 20	7 50	s	23 21
♃ Jupiter	9	14 4	11 34	s	0 54	25	14 18	12 45	s	0 4
♄ Saturn	13	12 40	1 57	s	23 11	29	12 47	2 40	s	22 15

M D	☽ Pl.	☽ Age	Moon rises.	Moon south.	H.W. Phila.
1	♊	18	8 29	3 8	5 20
2	16	19	9 18	3 59	6 11
3	28	20	10 10	4 49	7 1
4	♋	21	11 5	5 38	7 50
5	22	22	morn.	6 26	8 38
6	♌	23	0 1	7 11	9 23
7	16	24	0 58	7 55	10 7
8	28	25	1 56	8 39	10 51
9	♍	26	2 54	9 22	11 34
10	22	27	3 54	10 6	12 18
11	♎	28	4 55	10 51	1 3
12	18	29	5 57	11 38	1 50
13	♏	1	sets.	aft. 27	2 27
14	14	2	6 27	1 19	3 7
15	28	3	7 14	2 15	4 3
16	♐	4	8 7	3 11	4 9
17	26	5	9 7	4 10	5 58
18	♑	6	10 13	5 8	6 56
19	24	7	11 21	6 3	7 51
20	♒	8	morn.	6 58	8 46
21	22	9	0 31	7 51	9 39
22	♓	10	1 42	8 41	10 29
23	20	11	2 51	9 32	11 20
24	♈	12	3 58	10 22	12 10
25	18	13	5 7	11 13	1 1
26	♉	14	rises.	morn.	1 38
27	15	15	5 37	0 4	2 16
28	28	16	6 20	0 56	3 8
29	♊	17	7 8	1 48	4 0
30	24	18	8 0	2 39	4 51
31	♋	19	8 55	3 29	5 41

labor it is better to cultivate in hills three feet apart, in four feet rows. Soak the seed in warm water for twelve to sixteen hours, and then bury in sacks in the earth until it sprouts. Roll in dry plaster or ashes if it sticks together. Drop ten to fifteen seeds in a place, and cover one inch or less. When one inch high, go through with a harrow, having the front tooth removed, so that the harrow may go over to each row, and follow with the hoe. Continue to harrow, or use the cultivator and tend like Indian corn, thinning to five or eight stacks per hill when four inches high. Six to ten days before cutting, strip off the leaves. This causes the cane to ripen quicker and gives a richer juice. A quick blow with a long wooden knife will strip it rapidly. Do not top the cane until it is fully ripe; then take off the two

MOON'S PHASES.

	N. York.			*Philada.*			*Baltimore*			*Cincinnati.*		
	D.	H.	M.	D.	H.	M.	D.	H.	M.	D.	H.	M.
☾ Last Quar.	3	10	38	3	10	33	3	10	27	3	9	56 mor.
● New Moon.	11	3	3	11	2	58	11	2	52	11	2	21 mor.
☽ First Quar.	17	10	9	17	10	4	17	9	58	17	9	27 aft.
○ Full Moon.	25	4	6	25	4	1	25	3	55	25	3	24 mor.

M D	W D	*Miscellanies.*	Sun rises.	Sun sets.	Sun's dec.	Sun's s'th. H.	M.	S.
1	D	Fomalhaut so. 8 6 50 ♒	6 31	4 58	14°26′	11	43	43
2	2	☾ in Apogee	6 32	4 57	14 45	11	43	42
3	3	*Philadelphia Q. M.*	6 33	4 56	15 4	11	43	42
4	4	Twilight ends 6 27	6 34	4 55	15 23	11	43	43
5	5	*Abington Q. M.*	6 35	4 54	15 41	11	43	44
6	6	Markab so. 7 55 3	6 36	4 53	16 0	11	43	46
7	7	♀ ☌ ☾	6 37	4 52	16 17	11	43	50
8	D	♄ ☌ ☾	6 38	4 51	16 35	11	43	54
9	2	♁ ☌ ☾ ☿ ☌ ♁	6 39	4 50	16 52	11	43	59
10	3	☉ eclipsed, invis.	6 41	4 49	17 10	11	44	4
11	4	♀ in ♌	6 42	4 48	17 26	11	44	11
12	5	Fomalhaut so. 7 23 45	6 43	4 47	17 43	11	44	18
13	6	☿ ☌ ♃	6 44	4 46	17 59	11	44	27
14	7	Day-break 5 10 ♋	6 46	4 45	18 15	11	44	36
15	D	☾ in Perigee [1773	6 47	4 44	18 30	11	44	46
16	2	Destruc'n of Tea at Boston	6 48	4 43	18 45	11	44	57
17	3	Days length 9 h. 55 m.	6 49	4 43	19 0	11	45	8
18	4	Sirius rises 9 45 [1804	6 50	4 42	19 14	11	45	21
19	5	Pope crowns Napoleon,	6 51	4 41	19 29	11	45	34
20	6	Days decrease 5 h. 10 m.	6 52	4 40	19 42	11	45	48
21	7	♁ ☌ ♃	6 53	4 39	19 56	11	46	3
22	D	♀ ☌ ♄	6 54	4 38	20 9	11	46	18
23	2	☿ in ♍	6 55	4 38	20 22	11	46	35
24	3	Z. Taylor b. 1784.	6 57	4 37	20 34	11	46	52
25	4	*Southern Q. M.*	6 58	4 37	20 46	11	47	10
26	5	*Bucks Q. M.*	6 59	4 36	20 58	11	47	29
27	6	♅ ☌ ☾ ♒	7 0	4 36	21 9	11	47	48
28	7	Polish revolt, 1830	7 1	4 35	21 19	11	48	8
29	D	Vega sets 10 38	7 2	4 35	21 30	11	48	29
30	2	☾ in Apogee.	7 3	4 35	21 40	11	48	51

Planets' places in Right Ascension and Declination.

	M D	R. A. H. M.	Declin. ° ′	P. M. H. M.	M D	R. A. H. M.	Declin. ° ′	P. M. H. M.
♀ Venus	1	11 57	1 35 s	21 15	17	12 38	3 16 s	20 53
♂ Mars	5	13 58	11 34 s	23 0	21	14 40	15 15 s	22 39
♃ Jupiter	9	14 30	13 49 s	23 15	25	14 45	14 53 s	22 26
♄ Saturn	13	12 55	3 18 s	21 12	29	12 59	3 54 s	20 21

M D	☽ Pl.	☽ Ag.	Moon rises.	Moon south.	H.W. Phila.
1	18	20	9 50	4 18	6 30
2	♌	21	10 48	5 4	7 16
3	11	22	11 45	5 49	8 1
4	23	23	morn.	6 33	8 45
5	♍	24	0 43	7 16	9 28
6	18	25	1 41	7 59	10 11
7	♎	26	2 39	8 42	10 54
8	13	27	3 41	9 28	11 40
9	26	28	4 46	10 17	12 29
10	♏	29	5 50	11 8	1 20
11	23	0	sets.	aft. 4	2 4
12	♐	1	5 58	1 1	2 49
13	22	2	6 59	2 1	3 49
14	♑	3	8 5	3 1	4 49
15	20	4	9 13	3 59	5 47
16	♒	5	10 23	4 54	6 42
17	19	6	11 34	5 48	7 36
18	♓	7	morn.	6 38	8 26
19	17	8	0 42	7 28	9 16
20	♈	9	1 48	8 17	10 5
21	14	10	2 55	9 6	10 54
22	28	11	4 1	9 56	11 44
23	♉	12	5 5	10 47	12 35
24	24	13	6 8	11 39	1 27
25	♊	14	rises.	morn.	2 4
26	19	15	5 50	0 30	2 42
27	♋	16	6 44	1 20	3 32
28	14	17	7 40	2 10	4 22
29	26	18	8 36	2 58	5 10
30	♌	19	9 33	3 43	5 55

upper joints, with the seed head, and at the same time cut up the cane. There is very little juice in the top of the stalks, and that of poor quality, and incapable of crystalizing.

"Cut the cane as soon as the seed is well ripened, and grind as fast as possible. The uncrushed canes may be kept for months if protected from frost by covering or housing, while even a slight freezing, especially before cutting, will give the syrup a bitter, smoky flavor. The grinding-mill should be very strong, with two, or better, three rollers—upright if driven by horse power. Let the juice run from the mill through a wire sieve into the barrel or vat. Cook's evaporator is recommended, and a rapid ebullition, using the skimmer, is the best method of clarifying. Boil down three-

MOON'S PHASES.

	N. York.			*Philada.*			*Baltimore*			*Cincinnati.*		
	D.	H.	M.	D.	H.	M.	D.	H.	M.	D.	H.	M.
☾ Last Quar.	3	7	18	3	7	13	3	7	7	3	6	36 mor.
● New Moon.	10	3	28	10	3	23	10	3	17	10	2	46 aft.
☽ First Quar.	17	6	50	17	6	45	17	6	39	17	6	8 mor.
○ Full Moon.	24	9	54	24	9	49	24	9	43	24	9	12 aft.

M D.	W D	*Miscellanies.*	Sun rises.		Sun sets.		Sun's dec. s.		Sun south. H.	M.	S.
1	3	*Burlington Q. M.* ♒	7	4	4	34	21°49′		11	49	13
2	4	Mariner's compass invent-	7	5	4	34	21	58	11	49	36
3	5	☿ in Aphelion. [ed 1300	7	6	4	34	22	7	11	49	59
4	6	Rigel rises 6 46	7	7	4	34	22	15	11	50	24
5	7	♄ ☌ ☾	7	8	4	34	22	23	11	50	48
6	D	Van Buren, born 1782	7	9	4	33	22	31	11	51	14
7	2	♀ ☌ ☾	7	10	4	33	22	38	11	51	40
8	3	♃ ☌ ☾	7	11	4	33	22	44	11	52	6
9	4	♅ ☌ ☾	7	12	4	33	22	50	11	52	33
10	5	*Salem Q. M.*	7	13	4	33	22	56	11	53	0
11	6	☿ ☌ ☾ ♋	7	13	4	33	23	1	11	53	28
12	7	☾ in Perigee	7	14	4	34	23	6	11	53	56
13	D	Dr. Johnson d. 1784	7	15	4	34	23	10	11	54	24
14	2	♀ in Perihelion.	7	15	4	34	23	14	11	54	53
15	3	♅ ☍ ☉	7	16	4	34	23	17	11	55	22
16	4	Sirius rises 7 58	7	17	4	34	23	20	11	55	51
17	5	*Haddonfield Q. M.*	7	17	4	35	23	22	11	56	21
18	6	Lewistown, burnt 1813	7	18	4	35	23	24	11	56	50
19	7	Twilight ends 6 14	7	19	4	35	23	26	11	57	20
20	D	Days' length 9h. 21m.	7	19	4	36	23	27	11	57	50
21	2	Winter com. [Shortest day	7	20	4	36	23	27	11	58	20
22	3	☉ ent. ♑	7	20	4	37	23	27	11	58	50
23	4	♄ in ♉	7	21	4	37	23	27	11	59	20
24	5	*Fishing Creek H. Y. M.*	7	21	4	38	23	26	11	59	50
25	6	Christmas ♒	7	22	4	39	23	25	12	0	19
26	7	♀ ☌ ♃	7	22	4	39	23	23	12	0	49
27	D	St. John, died 100	7	23	4	40	23	20	12	1	19
28	2	☾ in apogee	7	23	4	41	23	18	12	1	48
29	3	Aldebaran so. 9 56	7	23	4	41	23	14	12	2	17
30	4	Buffalo, burnt 1813	7	23	4	42	23	11	12	2	47
31	5	☉ in Perigee.	7	23	4	43	23	7	12	3	16

Planets' places in Right Ascension and Declination.

	M D	R. A. H. M.	Declin. ° ′	P. M. H. M.	M D	R. A. H. M.	Declin. ° ′	P. M. H. M.
♀ Venus	1	13 26	6 44 s	20 46	17	14 28	11 42 s	20 46
♂ Mars	5	15 19	18 6 s	22 22	21	16 5	20 47 s	22 6
♃ Jupiter	9	14 56	15 44 s	21 42	25	15 8	16 36 s	20 51
♄ Saturn	13	13 4	4 16 s	19 34	29	13 8	4 35 s	17 35

M D	☽ Pl.	☽ Age	Moon rises.	Moon south.	H.W. Phila.
1	19	20	10 31	4 27	6 39
2	♍	21	11 28	5 10	7 22
3	13	22	morn.	5 52	8 4
4	25	23	0 25	6 35	8 47
5	♎	24	1 25	7 19	9 31
6	21	25	2 26	8 5	10 17
7	♏	26	3 31	8 55	11 7
8	17	27	4 37	9 48	12 0
9	♐	28	5 43	10 44	12 56
10	16	29	6 48	11 45	1 57
11	♑	1	sets.	aft. 47	2 47
12	15	2	6 57	1 47	3 35
13	♒	3	8 10	2 46	4 34
14	15	4	9 21	3 42	5 30
15	29	5	10 32	4 35	6 23
16	♓	6	11 40	5 25	7 13
17	28	7	morn.	6 15	8 3
18	♈	8	0 48	7 4	8 52
19	25	9	1 54	7 53	9 41
20	♉	10	2 58	8 42	10 30
21	21	11	3 59	9 32	11 20
22	♊	12	4 59	10 23	12 11
23	16	13	5 54	11 14	1 2
24	28	14	rises.	morn.	1 39
25	♋	15	5 32	0 4	2 16
26	22	16	6 27	0 53	3 5
27	♌	17	7 24	1 38	3 50
28	16	18	8 21	2 23	4 35
29	28	19	9 18	3 7	5 19
30	♍	20	10 16	3 49	6 1
31	22	21	11 13	4 31	6 43

fourths in the evaporator, and finish in a large shallow oblong pan, over a brick or stone arch into which it is poured through a strainer. Keep up a brisk heat under the finishing pan, until the syrup bubbles like mush, emitting little jets of steam. It is then run into the cooler in a finished state. To make sugar, reject the upper half of the stalk, and boil rapidly, as soon as the juice is pressed out. Pour the thick syrup into large shallow pans or coolers, and stir briskly until cool enough to bear the finger. If it does not begin to grain in a day or two, place in a room heated to eighty or ninety degrees, in open barrels with the lower end bored and plugged in several places. The barrels should stand on blocks, so that the plugs can be drawn to let the molasses drain off when the contents have sufficiently granulated."

YEARLY MEETINGS OF FRIENDS IN THE UNITED STATES.

PHILADELPHIA, 2d-day after second 1st-day in 5th mo., 10 o'clock.
New York, 2d day after fourth 1st-day in 5th mo., 10 o'clock.

Genesee, 2d-day after second 1st-day in 6th mo.; at Farmington odd years; and Pickering, Canada West, even.

Ohio, 2d-day before first 1st-day in 9th mo., at Salem, odd years; Mt. Pleasant, even.

Indiana, 2d-day after last 1st-day in 9th mo., at Richmond, odd years; Waynesville, even.

Baltimore, last 2d-day in 10th mo.

☞ Meetings of Ministers and Elders on 7th-day preceding each of the yearly meetings.

PHILADELPHIA YEARLY MEETING.

PHILADELPHIA QUARTERLY MEETING, 3d-day after first 1st-day in the 2d, 5th, 8th and 11th mos., at Race st., Phila. Ministers and elders day before, at 3 P. M.

The m.m. of Friends of Phila., (Race st.) 4th before last 6th-day but one in the mo., comp. of Race st. 4th-day; West Philadelphia, indulged) 1st-day morning.*

The m. m. of Friends, held at Green street, Phila., 5th before last 6th-day but one in the mo., composed of Green street, Frankford and Germantown,† 5th-days; Coates st. (indulged) 1st-day morn.

The m. m. of Friend of Phila., held at Spruce st., last 6th-day but one; other meetings 5th-day except M. Mtg. week.

Radnor m. m. second 5th-day; Radnor, Haverford, Marion, 5th-days; Valley, 4th-day, all at 10 s., 11 w., except Radnor, at 10 o'clock.

Exeter m. m., at Maiden Creek, last 4th-day; composed of Maiden Creek and Reading, 4th-days: all at 10 o'clock.

ABINGTON QUARTERLY MEETING, 5th-day after first 2d-day, at 10 o'clock; at Abington 2d mo.; Gwynedd 8th mo.; Horsham 5th and 11th mos. Ministers and elders day before, at 11.

Abington monthly meeting, last 2d-day, at 10 o'clock. Abington 5th-day, 10 o'clock.

Byberry m. m., 3d after last 2d-day; Byberry 5th-day, at 10 o'clock

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* All the morning meetings at Philadelphia begin at 10 A. M. The evening meeting at Race street, 7½ P. M.—at Green street, 7½ P. M. summer, 7 P. M. winter,—the afternoon meeting at Spruce street, 4 P. M. summer, 3 P. M. winter. Summer, from 1st of 4th to 1st of 10th month; winter, from 1st of 10th to 1st of 4th month. The afternoon meetings at Spruce st. are discontinued during the 7th and 8th months.

† There is no meeting for worship at Germantown the week of Frankford preparative, and Green street monthly meetings.

Horsham m. m., 4th-day after last 2d-day; Horsham 5th-day: Upper Dublin 4th-day: all at 10 o'clock. Warminster 5th-day.

Gwynedd m. m., 5th-day after last 2d-day; Gwynedd 5th-day; Plymouth 5th-day; Providence 5th-day: all at 10; Norristown 4th-day at 10½ o'clock. Plymouth odd mos.; Gwynedd even mos.

Richland m. m., 6th-day after last 2d-day; Richland 5th-day 10 s., 11 w.; Stroudsburg 5th-day, 10 s., 10½ w.

Bucks Quarterly Meeting, last 5th-day, at 10 o'clock; at Wrightstown 2d mo.; Buckingham 5th, Falls 8th, and Middletown 11th mo. Ministers and elders day before, at 11 o'clock.

Buckingham m. m., first 2d-day, at Buckingham; Buckingham 4th-day; Plumstead 5th-day; Doylestown 1st-day, all at 10 o'clock.

Solebury m. m., 3d after first 2d-day; Solebury 5th-day, at 10 o'clock.

Wrightstown m. m., 4th after first 2d-day; Wrightstown 4th-day, at 10 o'clock.

Makefield m. m., 5th after first 2d-day; Makefield 1st mo.; Newtown 2d, alternately; Makefield and Newtown 5th-days; all at 10 s., 11 w.

Middletown m. m., 6th after first 2d-day; Bristol 1st mo.; Middletown 2d, &c., Middletown 5th day; all at 10 o'clock; Bristol 4th: at 10 s., 11 w.

Falls m. m., 7th after first 2d-day; Falls 4th-day; Pennsbury 5th: all at 10 s., 11 w.

Quakertown m. m. (N. Jersey), 7th before first 2d-day; Kingwood 5th-day: 10 s, 11 w.

Concord Quarterly Meeting, 3d after last 1st-day; Concord 1st and 7th mos.; Wilmington 4th, and Darby 10th mo.; all at 10 o'clock except winter. Ministers and elders day before at 2 o'clock.

Chester m. m., 2d-day before last 1st-day, at Providence; at 10 o'clock; composed of Chester 4th-day, at 10 s., 11 w.; Providence 5th-day; Middletown 5th-day, both at 10 o'clock.

Darby m. m., 3d before last 1st day; Darby 5th-day:*both at 10 o'clock.

Goshen m. m., 4th before last 1st-day, at Willistown; composed of Goshen 4th-day, Newtown 4th; Willistown 5th, all at 10 o'clock.

Concord m. m., 5th before last 1st-day; Concord 4th-day, Chichester 5th: all at 10 o'clock.

Wilmington m. m., 6th before last 1st-day; Wilmington 5th-day;† Stanton 5th: all at 10 o'clock.

Birmingham m. m., at West Chester 7th before last 1st-day; Birmingham 5th-day; West Chester 4th: all at 10 o'clock.

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* There is no mid week meeting at Darby the week the Quarterly Meeting is held there.

† No mid week meeting at Wilmington and Stanton, the week of the Quarterly Meeting at Wilmington.

Caln Quarterly Meeting, 5th before last 1st-day, at East Caln 1st and 7th mos.; Sadsbury 4th and 10th mos.; all at 11 o'clock. Ministers and elders day before, at 2 P. M.

Uwchlan m. m., first 2d-day, at Kimberton, in 1st mo.; Uwchlan 2d mo., alternately; Kimberton 4th day, Uwchlan 5th, 10 s., 11 w.

Bradford m. m., 3d after first 2d-day, at 11 o'clock; at East Caln 1st m., Bradford 2d, &c.; Bradford 4th-day, at 10 o'clock; East Caln 4th, 10 s. 11 w.

Sadsbury m. m., 4th after first 2d-day; Bart 1st mo., Sadsbury 2d, alternately; Bart 5th, 10 o'clock.; East Sadsbury 5th-day; Lampeter 5th, Columbia 4th, at 11 o'clock.

Western Quarterly Meeting,*at London Grove, 3d before last 1st-day; 1st, 4th, 7th, and 10th mos.; all at 10 o'clock. Ministers and elders day before, at 11 o'clock.

Centre m. m., 2d-day after first 1st-day, at Hockessin, in 1st mo., Centre 2d, &c.; Centre 5th-day, Hockessin 5th.

Kennet m. m., 3d-day after first 1st-day, at Kennet Square, 1st mo.; Kennet 2d, Marlborough 3d, alternately; Kennet Square 5th-day, Marlborough 4th, Kennet 5th, Unionville 5th.

London Grove, m. m., 4th after first 1st-day; London Grove 4th-day.

New Garden, m. m., 5th after first 1st-day; New Garden 1st mo., Mill Creek 2d., West Grove 3d., &c.; New Garden 5th-day, West Grove 5th, Mill Creek 5th.

Fallowfield m. m., 7th after first 1st-day; Doe Run 1st mo., Fallowfield 2d; Fallowfield 5th-day, Doe Run 4th.

Penn's Grove m. m., 6th after first 1st-day; at Oxford 1st mo., Penn's Grove 2d, &c.; both on 5th day, at 10 o'clock.

Southern Quarterly Meeting, 4th after fourth 1st-day, at Little Creek 2d and 11th mos.; Third-haven 5th and 8th mos. Ministers and Elders day before meeting for worship day after; all at 11 o'clock, except Third-haven at 10.

Camden m. m., 2d after second 1st-day (one week later in 5th mo.), at Camden 1st mo.; Little Creek 2d, alternately; Apoquinimink 5th-day, Smyrna 4th; Little Creek 5th, Camden 3d: all at 10 s., 11 w.

North-West Fork m. m., 4th after second 1st-day, one week later in the 5th mo.; at Pine Grove 1st month, Marshy Creek 2d, &c.; Pine Grove 5th-day, Centre 4th, Snow Hill 4th: all at 10 o'clock.

Third-haven m. m., 5th after second 1st-day (one week later in 5th month), Third-haven 5th-day, Neck 4th-day, 10 s., 11 w.

Cecil m. m., 7th after second 1st day; Cecil 4th-day, Chester Neck indulged 1st and 5th days: all at 11 o'clock.

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* All the Meetings composing Western Quarterly Meeting with their branches, convene at 10 o'clock, from the first first-day in 4th mo., till the first first-day in 12th mo., (the latter not included.) The remainder of the year at 11 o clock, excepting Pennsgrove, which meets at 10 o'clock the year round

† Select Meeting in 2d and 11th mos. is held at Camden at 3 o'clock, P. M.

Burlington Quarterly Meeting, 3d after last 2d-day; at Mount Holly 2d mo., Crosswicks 5th, &c., at 10 o'clock. Ministers and elders day before at 10 o'clock.

Burlington m. m., first 2d-day; at Rancocas 1st mo., Old Springfield 2d, and Burlington 3d mo., alternately: Rancocas 5th-day, Old Springfield 5th: Burlington 4th; all at 10 o'clock.

Chesterfield m. m., at Crosswicks, 3d after first 2d-day; Chesterfield 5th day (Stony Brook 5th), Trenton 5th, Bordentown 4th: all at 10. East Branch indulged, 1st and 5th days.

Upper Springfield m. m., 4th after first 2d-day; Upper Springfield 4th day, Mansfield 4th, Upper Freehold 5th: all at 10 o'clock.

Mt. Holly m. m., 5th after first 2d-day; Mt. Holly 5th-day; Mount 5th, Vincent-town 1st day only: all at 10 o'clock.

Haddonfield Quarterly Meeting, 5th after second 2d-day; at Moorestown 3d mo., Medford 6th, Evesham 9th, Haddonfield 12th: all at 10. Ministers and elders, each place, day before, at 11 o'clock.

Chester m. m., at Moorestown, 5th after first 2d-day, at 10. Westfield 5th-day, Moorestown 5th: both at 10.

Evesham m. m., 3d after first 2d-day; Evesham 5th: both at 10 o'clock.

Medford m. m., 6th after first 2d-day; Medford 5th-day: both at 10 o'clock.

Haddonfield m. m., 4th after first 2d-day; at Camden 1st mo., Haddonfield 2d, &c.; Camden 5th-day, Haddonfield 5th: all at 10 o'clock.

Salem Quarterly Meeting, 5th after first 2d-day, at Woodstown 3rd and 9th mos.; Salem 6th mo; and Woodbury 12th mo.: all at 10 o'clock. Ministers and elders day before, at 2½ P. M.

Woodbury m. m., last 2d-day; 1st mo. Upper Greenwich, 2d mo. Woodbury, &c.; Woodbury 5th-day; all at 10 s., 11 w., and Upper Greenwich 5th-day at 10 o'clock.

Piles Grove m. m., 3d after last 2d-day, Piles Grove 5th day, at 10; Upper Penn Neck 5th, Woolwich 4th, at 10 s., 11 w.

Salem m. m., 4th after last 2d-day; Salem 4th-day: both at 10.

Greenwich m. m., 5th after last 2d-day; at Greenwich 1st mo., Alloway's Creek 2d, &c.; Greenwieh 4th-day, Alloway's Creek 5th: Maurice River 5th day: all at 10; Cape May 5th-day, at 11 o'cl'k.

Fishing Creek Half-Year Meeting.

Fifth after last 4th-day but one in 6th and 12th mos. Ministers and Elders day before, at 5½ o'clock P. M.

Roaring Creek m. m., last 4th-day but two: at Roaring Creek 1st mo., Catawissa 2d, Bewick 3d, Shamokin 4th, &c.; Bewick 5th, Shamokin 5th; all at 10 s., 11 w.

Fishing Creek m. m., at Millville, last 4th-day but one; Fishing Creek 4th-day; all at 10 s., 11 w.

NEW YORK YEARLY MEETING.

Westbury Quarterly Meeting, 5th before last 1st-day; at New York 1st mo., Westbury 4th and 7th mos., Flushing 10th mo. Ministers and Elders day before, at 3 o'clock.

New York m. m., first 4th day; Southern District 4th day, Northern 5th, Brooklyn 5th: all at 10½ o'clock: Westchester 4th, at 11 o'clock.

Flushing m. m., first 5th-day; Flushing 5th day, at 11 o'clock.

Westbury m. m., 4th before third 5th-day; at Westbury, except 2d, 5th, 8th, and 11th mos. at Matinicock; Westbury 4th-day, Cowneck 5th, Matinicock 5th; all at 11 o'clock.

Jericho m. m., third 5th-day; Jericho 5th-day, Bethpage 4th, Jerusalem 5th: all at 11 o'clock.

Cornwall m. m., fourth 5th-day; at Cornwall 1st mo., Smith's Clove 2d, &c.; one week earlier, 1st, 4th, 7th, and 10th mos.; all at 11 o'clock: Cornwall 5th-day, Clove 4th, Blooming Grove 5th, Kakiat 1st day only.

Plains m. m., fourth 3d-day; at Paltz 1st mo., Greenfield 2d, Little Esopus 3d, &c.; Paltz 5th-day; Greenfield 5th; Little Esopus 5th; Neversink (indulged,) 1st-day.

Purchase Quarterly Meeting, 4th before first 1st-day; at Purhase 2d and 8th mos., Chappaqua 5th and 11th mos. Ministers and Elders day before, at 2 P. M. All meetings in this quarter begin at 11 o'clock.

Purchase m. m., 4th before second 5th-day; at Mamaroneck 2d, 6th, 8th and 12th mos., at Purchase the other months; Purchase 4th-day, Mamaroneck 5th.

Chappaqua m. m., second 5th-day; Chappaqua 5th-day, North Castle 4th, Mt. Kisco 4th; North Castle 5th and 9th mos.; Chappaqua other months.

Amawalk m. m., 6th after second 5th day; Amawalk 4th-day, Salem 5th, Croton 5th, Peekskill 4th.

Nine Partners Quarterly Meeting, 3d before second 1st-day

in 2d, 5th, and 11 mos., at Nine Partners; Oblong in 8th mo. Ministers and Elders day before.

Nine Partners m. m., third 5th-day; Nine Partners 5th-day, Chesnut Ridge 4th, Canaan 1st-day only.

Oblong m. m., 2d after second 5th-day; Oblong 4th-day, Branch th, Valley 5th; at Valley 4th, 8th, and 12th mos.

Oswego m. m., 4th after second 5th-day; Oswego 1st mo., Poughkeepsie 2d, &c.; Oswego 4th-day, Apoquague 5th, West Branch 5th, Pleasant Valley 4th, Poughkeepsie 5th.

Stanford Quarterly Meeting, 6th before second 1st-day; at Stanford 2d mo., Creek 5th, Hudson 8th, Chatham 11th. Ministers and Elders day before at 11; except Hudson at 4 o'clock.

Stanford m. m., third 7th-day; Stanford 5th day; Little Nine Partners 4th.

Creek m. m., third 6th-day; at Creek 1st mo., Crum Elbow 2d, &c.; Creek 4th-day, Crum Elbow 5th.

Hudson m. m., 3d after third 1st-day; at Hudson 1st, 2d, 3d, 4th, 11th and 12th mos.; Ghent 5th, 6th, 7th, and 8th; Athens 9th and 10th months; Hudson 5th day, Ghent 4th, Athens 4th: all at 11 o'clock.

Chatham m. m., fourth 5th-day; Chatham 5th-day.

Easton Quarterly Meeting, 4th after third 1st-day in 5th mo., and 4th after second 1st-day in 2d and 11th mos. at Easton; and 4th after fourth 1st-day in 8th mo. at Granville in 1849, and Danby 1850, alternately. Ministers and Elders day before at 2 o'clock.

Easton m m., 5th before third 1st-day; one week later in Q. M. week; Easton 5th-day, White Creek on 1st-day only.

Danby m. m., 5th before second 1st-day; at Granville 4th and 10th mos.; at Danby the others; Danby 5th-day, Granville 4th.

Troy m. m., 4th before second 1st-day, at Pittstown 1st mo.; Troy 2d, &c.; Troy 4th-day, White Creek 4th, Pittstown 5th.

Ferrisburgh m. m., 4th before first 1st-day; Ferrisburgh 5th-day.

Saratoga Quarterly Meeting, 4th before fourth 1st-day; at Saratoga 5th and 11th, and Queensbury 2d and 8th mo., one week earlier 5th month.

Saratoga, m. m., 4th before second 1st-day; Saratoga 4th-day.

Peru, m. m., 5th before last 1st-day; Peru 5th-day.

Queensbury m. m., 5th before second 1st-day; Queensbury 5th-day.

Galway m. m., 5th after first 1st-day; at Greenfield 1st mo.; Galway 2d, and Milton 3d, alternately.

Duanesburg Quarterly Meeting, 5th before third 1st-day; Coeymans in 2d and 5th mos., one week later in 5th, two in 8th mos., Rensselaerville 8th mo., Duanesburgh 11th mo.

Coeymans m. m., 4th before fourth 5th-day; at Coeyman's 1st mo., New Baltimore 2d, &c.: Coeymans 4th day, New Baltimore 5th-day.

Duanesburgh m. m., 7th after fourth 5th-day; Duanesburgh 5th-day, Charleston 4th.

Albany m. m., 7th-day after Duanesburgh M. M.; Albany 5th-day.

Rensselaerville m. m., fourth 5th-day; Rensselaerville 4th-day. Oak Hill 4th.

Shrewsbury and Rahway Quarterly Meeting, 5th before third 1st-day, at Plainfield in 2d and 11th mos., Shrewsbury 5th mo., Rahway 8th mo., at 11 o'clock. Ministers and elders day preceding.

Shrewsbury m. m., first 2d-day at 11 o'clock; Shrewsbury 5th-day, Squan 4th.

Rahway and Plainfield m. m., third 5th-day at Rahway, in 1st mo.; and third 4th-day at Plainfield, in 2d mo., &c.; Rahway 5th day, at 10; Plainfield 4th day, at 11 o'clock.

Hardwich and Randolph, m. m., first 5th-day in 1st and 2d mos., at Hardwich; 3d mo. at Randolph, &c.; Randolph 5th day, Hardwich 4th-day: all at 11 o'clock.

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*Meetings composing Genessee Yearly Meeting.**

Farmington Quarterly Meeting, first 4th-day; at Farmington, 1st month; at Mendon, 4th and 10th month, at Hamburg 7th month. Ministers and Elders day before at 2 P. M.

Farmington m. m., 5th before last 1st-day; at Macedon, 1st 4th 7th and 10th month, at Farmington other months. Farmington, 5th, Macedon 4th, Farmington South 4th.

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* All the meetings begin at 11 o'clock.

Hamburg m. m., last 5th-day; at Collins 2d and 8th mos., Boston 5th and 11th mos., and Hamburg the others. Hamburg 5th-day, Boston 4th, Collins 4th.

Junius m. m., 4th before last 1st-day, at Galen; Galen 5th-day.

Rochester m. m., 6th before last 1st-day. At Mendon in 7th mo., at Rochester in 8th month, and at Wheatland in 9th month, &c.; Mendon 5th, Rochester 4th, Wheatland 5th. Indulged meeting at Lockport on first day.

Scipio Quarterly Meeting, second 4th-day; at Scipio 1st, 4th, and 10th months, and at Deruyter in 7th month.

Scipio m. m., 5th before two last 1st-days; at Union Springs in 2d, 5th, 8th, and 11th months; at Scipio other months. Scipio 5th, North Street 4th, Union Springs, 5th. At Skancatles no meeting middle of the week, except on week preparative meeting. Victory indulged 1st-days.

Deruyter m. m., last 4th-day. Deruyter 4th.

Verona m. m., 6th after fifth 5th-day, at Constantia; Constantia 4th-day.

Canada Half Year Meeting, 2d after last 1st-day; at West Lake in 5th month, and Yonge Street in 9th month; Ministers and Elders 7th-day preceding: all at 11 o'clock.

Yonge Street m. m., 5th after second 1st day; Yonge Street 1st month, White Church 2d, King 3d month, &c. Yonge Street 5th, White Church 4th, King 4th.

Pickering m. m., 5th after third 1st-day; at Uxbridge in 3d, 7th, and 12th months, at Pickering other months.

West Lake m. m., 4th before third 5th-day; at Green Point in 3d, 8th, and 11th months; at West Lake the other months. West Lake 4th, Green Point 4th.

Pelham Half Year Meeting, second 4th-day in 2d mo. at Pelham; third 4th-day in 8th month at Yarmouth.

Pelham m. m., first 4th-day, alternately at Pelham and Black Creek; Black Creek 1st month, Pelham 2d month, &c. Pelham 4th, Black Creek 5th.

Norwich m. m., second 4th day. Yarmouth 1st mo., Malehide 2d mo., Norwich 3d mo., Lobo 4th month, &c.; Yarmouth, 5th-day, Norwich 5th, Malehide 4th, Lobo 4th.

Battle Creek m. m., (last 4th-day; held only once in 2 mos. alternately at Battle Creek and Adrian.)—At Adrian 1st, 5th, and 9th mos. Battle Creek, 3d, 7th, and 11th months.

OHIO YEARLY MEETING.

Redstone Quarterly Meeting, 2d-day after first 7th-day, in 2d, 5th, 8th and 11th mos.; at Westland.

Westland m. m., 5th before last 1st-day; at Westland 1st mo., Pike Run, 2d, &c. Preparative meetings week before; no other mid-week meetings within the Quarter.

Short Creek Quarterly Meeting, third 7th-day in 2d, 5th, 8th and 11th mos. Ministers and Elders day before at 2 o'clock.

Short Creek m. m., 3d after first 7th-day; at Harrisville 1st mo., Short Creek 2d, &c.; Harrisville 4th, West Grove 5th, Short Creek 5th-day.

Concord m. m., 4th after third 7th-day; Concord 4th-day.

Freeport m. m., second 7th-day; Freeport 4th-day.

Salem Quarterly Meeting, second 7th-day in 2d, 5th, 8th and 11th mos., at Salem. Ministers and Elders day before at 3 o'clock.

Salem m. m., 5th after third 7th-day; Salem 5th-day.

Middleton m. m., 5th before third 7th-day, at Columbiana; Columbiana 5th-day, Carmel 5th.

Beaver Falls m. m., 3d before third 7th day, at New Brighton; Beaver Falls 5th-day.

West m. m., 6th-day after the third 7th-day; West 5th-day, Copesrun 4th-day.

Stillwater Quarterly Meeting,* 4th before fourth 7th-day; 2d and 8th mos. at Plainfield, 5th and 11th mos. at Somerset. Ministers and Elders day before at 3 o'clock.

Stillwater m. m., third 7th-day; Richland 1st mo.; Somerset 2d; Sunbury 3d, alternate, &c.; Somerset 4th, Richland 4th, Sunbury 5th-day.

Plainfield m. m., 5th after second 7th-day; Plainfield 5th-day Goshen 4th, St. Clairsville 4th.

Deerfield m. m., 4th after first 7th-day; Westland 1st mo.; Deerfield 2d, alternate; Deerfield 4th-day, Westland 5th.

INDIANA YEARLY MEETING.†

Miami Quarterly Meeting second 7th-day in 2d, 5th, 8th, and 11th mos. at Waynesville.

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* The 8th mo. Quarter on 5th day before the Yearly Meeting, when held at Mt Pleasant.

† All the meetings belonging to Indiana Yearly Meeting, convene at 11 o'clock.

Miami m. m., 4th before last 1st-day; Miami 4th-day; Grove 4th-day, Hopewell 5th.

Springboro' m. m., 5th before last 1st-day; Springboro' 5th-day.

Cincinnati m. m., 5th-day after third 7th-day; Cincinnati 5th-day.

Centre m. m., 5th after second 7th-day; Centre 5th-day; Fall Creek 5th-day, Clear Creek and Newberry 1st-days only.

Green Plain m. m., 4th after second 7th-day; Green Plain 4th-day. Oakland indulged 5th-day.

Alum Creek m. m., 4th after third 7th-day; Alum Creek 4th-day.

White Water Quarterly Meeting, first 7th-day; at Dublin 3d and 9th mos., Richmond 6th and 12th mos.

White Water m. m., fourth 4th-day; White Water 4th-day, Camden 5th.

Milford m. m., third 5th-day; Milford 5th-day, Bethel 5th.

Fall Creek m. m., second 5th-day at Fall Creek 1st mo., Duck Creek 2d, &c.; Fall Creek 5th-day Duck Creek 5th-day, Indianapolis 5th.

Westfield m. m., last 4th-day; Westfield 4th-day.

Maple Grove m. m., 7th after second 5th-day, at Maple Grove, 1st mo.; Rush Creek 2d mo., &c.; Rush Creek 4th-day, Maple Grove 5th-day.

Blue River Quarterly Meeting, fourth 7th-day in 2d, 5th, 9th, and 11th mos.; 2d and 9th mos. at Blue River, 5th mo. at Honey Creek, and 11th mo., at Clear Creek, Putnam County, Illinois; In the 9th mo., the Quarterly Meeting is held on the third 7th day.

Blue River m. m., first 7th-day; Blue River 5th-day; Highlands Creek 4th-day.

Honey Creek m. m., second 7th-day; Honey Creek 4th-day.

Clear Creek m. m., first 5th-day. Clear Creek 5th-day. Plainfield 5th. Benjaminsville and Rock River, not established.

BALTIMORE YEARLY MEETING.

Baltimore Quarterly Meeting, held the second 2d-day; at Baltimore 3d, Sandy Spring 6th, Gunpowder 9th, and Little Falls 12th mo.: at 10 o'clock.

Baltimore m. m., Lombard Street. 5th after first 2d-day; Western

District 4th-day, Eastern District 5th: both at 10 o'clock Ellicott Ridge 4th-day, at 11 o'clock.

Sandy Spring m. m., 4th after first 2d-day, at 11 o'clock.

Little Falls m. m., 3d after first 2d-day; Little Falls 5th-day, Forest 4th: all at 10 s., 11 w.

Gunpowder m. m., 4th after first 2d-day; Gunpowder 4th-day.

Nottingham Quarterly Meeting, 6th after third 2d-day, at 11 o'clock; Little Britain 2d and 11th mos., Deer Creek 5th mo., East Nottingham 8th mo.

Nottingham m. m., 6th after second 2d-day; Nottingham 1st mo., East Nottingham 2d mo., &c. East Nottingham 5th-day, West Nottingham 4th, Octoraro 5th; Little Elk 4th-day; all at 11 o'clock.

Little Britain m. m. 7th after second 2d-day, at 11 o'clock; at Eastland 6th, 8th, and 10th mos.; Drumore 5th, 7th and 9th mos.; Little Britain others; Little Britain 5th-day, Eastland 4th, Drumore 4th.

Deer Creek m. m. 5th after second 2d-day; at Deer Creek 1st mo.; Broad Creek 2d mo.; Fawn 3d mo., &c. in rotation; all at 11 o'clock; Deer Creek 5th-day, Broad Creek 4th-day 10 s. 11 w.; and Fawn 4th-day at 11 o'clock.

Warrington Quarterly Meeting, fourth 2d-day, at 10 o'clock in the 5th and 8th mos., at 11 in the 2d and 11th mos.; at Monallen 2d and 8th mos.; Pipe Creek 5th and 11th mos. Ministers and Elders 7th-day preceding, at 2 o'clock.

Pipe Creek m. m., 7th before third 2d-day; at Pipe Creek 1st mo., Bush Creek 2d mo., &c.; Bush Creek 5th-day, Pipe Creek 4th: all at 10 s., 11 w.

Monallen m. m., 4th and 5th-days before fourth 2d-day; at Monallen 1st mo. on 4th-day; Huntington 2d mo. on 5th-day; Monallen 4th-day, Huntington 5th: all at 10 s., 11 w.

Warrington m. m., 4th and 5th-days before fourth 2d-day; at Warrington 1st mo. on 5th-day; Newberry 2d mo. on 4th-day, &c.; Warrington 5th-day, Newberry 4th: all at 11 o'clock. York 5th-day, indulged.

Centre Quarterly Meeting, third 2d-day in 2d mo. at Bald Eagle, and 11th mo. at West Branch; and first 2d day in 6th mo. at Dunning's Creek, and 9th mo. at Centre.

Dunning's Creek m. m., first 4th-day after second 2d-day; Dunning's Creek 4th-day: both at 11 o'clock.

Centre m. m., 5th-day after first 2d-day; Centre 5th-day, Bald Eagle 4th: all at 11 o'clock.

West Branch m. m., 5th before first 2d-day; West Branch 5th-day: both at 11 o'clock.

Fairfax Quarterly Meeting, third 2d-day; Fairfax 2d mo.; Hopewell 5th mo.; Goose Creek 8th mo.; Alexandria 11th mo Ministers and Elders 7th-day preceding.

Hopewell m. m., 5th after first 2d-day; Hopewell 5th-day, Winhester 4th, Ridge 4th: all at 11 o'clock.

Fairfax m. m., 4th after second 2d-day; Fairfax 4th-day at 11 'clock.

Goose Creek m. m., 5th after second 2d-day; Goose Creek 5th-day, t 11 o'clock.

Alexandria m. m., 5th after third 2d-day; Alexandria 5th-day Vashington* 4th: all at 11 o'clock; Woodlawn 4th, at 10.

Prairie Grove m. m. (Henry co., Iowa,), last 7th-day; Prairie Grove 5th-day: both at 11 o'clock.

☞ The Clerks of the various Yearly, Quarterly, and Monthly Meetings would confer a favour by transmitting any alterations in the time or places of holding meetings within their limits, to T. Ellwood Zell, Nos. 17 and 19 South Sixth Street, Philadelphia.

The following table, giving the distance and direction of the different meetings, (belonging to Indiana, Y. M.) from Richmond, was urnished by Robert Hatton of that place

In Ohio.			In Indiana.		
	Miles.	Course.		Miles.	Course.
Miami	52	S. of E.	Milford	16	S. of W.
Springboro	44	S. of E.	Bethel	18	West.
Cincinnati	60	S. S. E.	Fall Creek	60	N. of W.
Centre	67	S. of E.	Duck Creek	36	N. of W.
Green Plain	68	East	Maple Grove	110	North.
Alum Creek	100	N. of E.	Rush Creek	90	North.
Westfield	16	E. of S.	Blue River	120	S. W.
			Honey Creek	150	S. of W.

In Illinois.

Clear Creek ..... 250 Miles West.

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* There is no mid-week meeting at Washington week of monthly meeting—at 3 o'clock P. M. 1st, 2d, 3d, 10th, 11th, and 12th mos.; at 4 o'clock other months.

NOTE.

The time of holding the Preparative Meeting of Ministers and Elders constituting the Western Quarter, to be in the week preceding the Quarterly Meeting, viz.,

On 2d-day at Doe Run, 1st and 7th mos.; Fallowfield, 4th and 10th mos.

On 3d-day at Oxford, 1st and 7th mos.; Penn's Grove, 4th and 10th mos.

On 4th-day at New Garden, 1st, 4th, 7th, and 10th mos.

On 5th-day at London Grove, 1st, 4th, 7th, and 10th mos.

On 6th day at Kennet Square. 1st, 4th, 7th, and 10th mos.

On 7th day at Hockessin, 1st and 7th mos.; Centre, 4th and 10th mos., all at 11 o'clock.

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